



# **Malla Reddy College Engineering (Autonomous)**



Maisammaguda, Dhulapally (Post Via. Hakimpet), Secunderabad, Telangana-500100 [www.mrec.ac.in](http://www.mrec.ac.in)

## **Department of Information Technology III B.**

### **II B.TECH II SEM (A.Y.2018-19)**

## **80603 Web Technologies Lab**

<b>2018-19 Onward  s (MR- 18)</b>	<b>MALLA REDDY ENGINEERING COLLEGE (Autonomous)</b>	<b>B.Tech. IV Semester</b>		
<b>Code: 80603</b>	<b>WEB TECHNOLOGIES LAB (Common for CSE and IT)</b>	<b>L</b>	<b>T</b>	<b>P</b>
<b>Credits: 2</b>		<b>-</b>	<b>1</b>	<b>2</b>

Prerequisite: NIL

**Course Objectives:**

**To enable the student to program web applications using the following technologies, AJAX, PHP, Tomcat Server, Servlets, JSP**

**Software Requirements: JDK, BDK and Tomcat Server**

Note:

1. Use LAMP Stack (Linux, Apache, MySQL and PHP) for the Lab Experiments. Though not mandatory, encourage the use of Eclipse platform wherever applicable.
2. The list suggests the minimum program set. Hence, the concerned staff is requested to add more problems to the list as needed.

List of Programs:

1. Install the following on the local machine
  - Apache Web Server (if not installed)
  - Tomcat Application Server locally
  - Install MySQL (if not installed)
  - Install PHP and configure it to work with Apache web server and MySQL (if not already configured)
2. Write an HTML page including javascript that takes a given set of integer numbers and shows them after sorting in descending order.
3. Write an HTML page including any required Javascript that takes a number from one text field in the range of 0 to 999 and shows it in another text field in words. If the number is out of range, it should show "out of range" and if it is not a number, it should show "not a number" message in the result box.
4. Write an HTML page that has one input, which can take multi-line text and a submit button. Once the user clicks the submit button, it should show the number of characters, words and lines in the text entered using an alert message. Words are separated with white space and lines are separated with new line character.

5. Write an HTML page that contains a selection box with a list of 5 countries. When the user selects a country, its capital should be printed next to the list. Add CSS to customize the properties of the font of the capital (color, bold and font size).

6. Create an XML document that contains 10 users information. Write a Java program, which takes User Id as input and returns the user details by taking the user information from the XML document using (a) DOM Parser and (b) SAX parser.

**Implement the following web applications using (a) PHP, (b) Servlets and (c) JSP:**

7. A user validation web application, where the user submits the login name and password to the server. The name and password are checked against the data already available in Database and if the data matches, a successful login page is returned. Otherwise a failure message is shown to the user.
8. Modify the above program to use an xml file instead of database.
9. Modify the above program to use AJAX to show the result on the same page below the submit button.
10. A simple calculator web application that takes two numbers and an operator (+, -, /, \* and%) from an HTML page and returns the result page with the operation performed on the operands.
11. Modify the above program such that it stores each query in a database and checks the database first for the result. If the query is already available in the DB, it returns the value that was previously computed (from DB) or it computes the result and returns it after storing the new query and result in DB.
12. A web application takes a name as input and on submit it shows a hello <name> pagewhere <name> is taken from the request. It shows the start time at the right top corner ofthe page and provides a logout button. On clicking this button, it should show a logoutpage with Thank You <name> message with the duration of usage (hint: Use session tostore name and time).
13. A web application that takes name and age from an HTML page. If the age is less than18, it should send a page with “Hello <name>, you are not authorized to visit this site”message, where <name> should be replaced with the entered name. Otherwise it shouldsend “Welcome <name> to this site” message.
14. A web application for implementation:

**The user is first served a login page which takes user's name and password. Aftersubmitting the details the server checks these values against the data from a database andtakes the following decisions.**

**If name and password matches, serves a welcome page with user's full name.**

If name matches and password doesn't match, then serves "password mismatch" page

If name is not found in the database, serves a registration page, where user's full name is asked and on submitting the full name, it stores, the login name, password and full name in the database (hint: use session for storing the submitted login name and password)

15. A web application that lists all cookies stored in the browser on clicking "List Cookies" button. Add cookies if necessary.

#### TEXT BOOKS

1. The Complete Reference PHP – Steven Holzner, Tata McGraw-Hill
2. Web Programming, building internet applications, Chris Bates 2nd edition, Wiley Dreamtech

#### REFERENCES

1. Java Server Pages – Hans Bergsten, SPD O'Reilly
2. Java Script, D.Flanagan, O'Reilly, SPD.
3. Internet and World Wide Web – How to program, Dietel and Nieto, Pearson.

#### Course Outcomes:

**At the end of the course, students will be able to**

1. **Demonstrate** use of LAMP Stack for web applications and Tomcat Server for Servlets and JSPs
2. **Design** simple applications with Technologies like HTML, Javascript, AJAX, PHP,
3. **Utilize** the concepts of Servlets and JSPs and implement dynamic websites and Connect to Database and get results
4. **Use** Parse XML files using Java (DOM and SAX parsers)

CO- PO Mapping (3/2/1 indicates strength of correlation) 3-Strong, 2-Medium, 1-Weak															
COs	Programme Outcomes(POs)												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1			3		3	2		2		2		3	2	3	3
CO2			3		3	2		2		2		3	2	3	3
CO3			3		3	2		2		2		3	2	3	3
CO4			3		3	2		2		2		3	2	3	3



B. Tech III - I sem (Common to CSE)

L T C  
3 1 3

(15A05502) COMPUTER NETWORKS

**Program 1:**

write a html program to display welcome message

**first.html:**

```
<html>  
  <head>  
    <title>my first html program</title>  
  </head>  
  <body>  
    <center>  
      <p>welcome to html programming </p>  
    </center>  
  </body>  
</html>
```



**Program 2:**

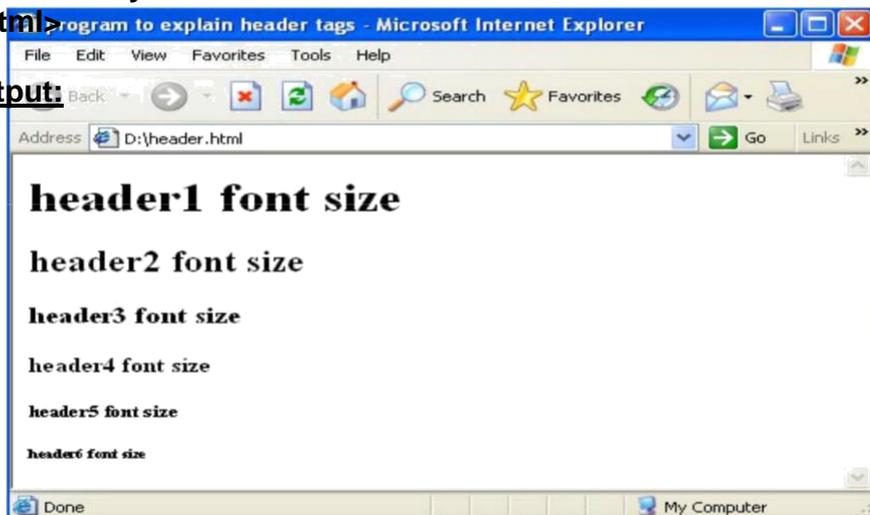
write a html program using border tags



header.html:

```
<html>
  <head>
    <title>program to explain header
tags</title> </head>
  <body>
    <h1>header1 font size </h1>
    <h2>header2 font size </h2>
    <h3>header3 font size </h3>
    <h4>header4 font size </h4>
    <h5>header5 font size </h5>
    <h6>header6 font size </h6>
  </body>
</html>
```

Output:



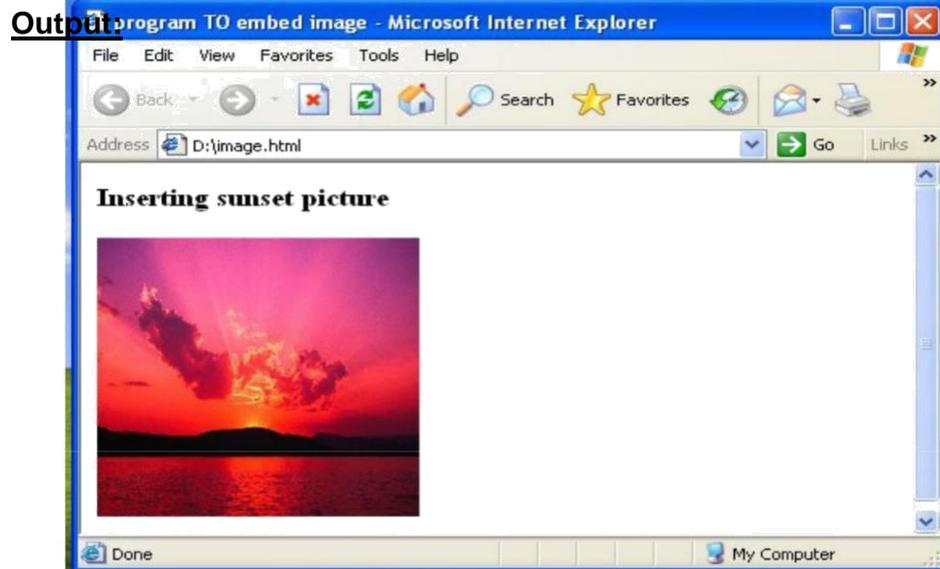
Program 3:

write a html program to embed an image into web document

image.html:

```
<html>
  <head>
    <title>program TO embed image</title>
  </head>
```

```
<body>
  <h3>Inserting sunset picture</h3>
  
</body>
</html>
```



#### **Program 4:**

write a html program to create hyperlinks to other documents

##### **first.html:**

```
<html>
  <head>
    <title>my first html program</title>
  </head>
  <body>
    <center>
      <p>welcome to html programming </p>
    </center>
  </body>
</html>
```

### Header.html:

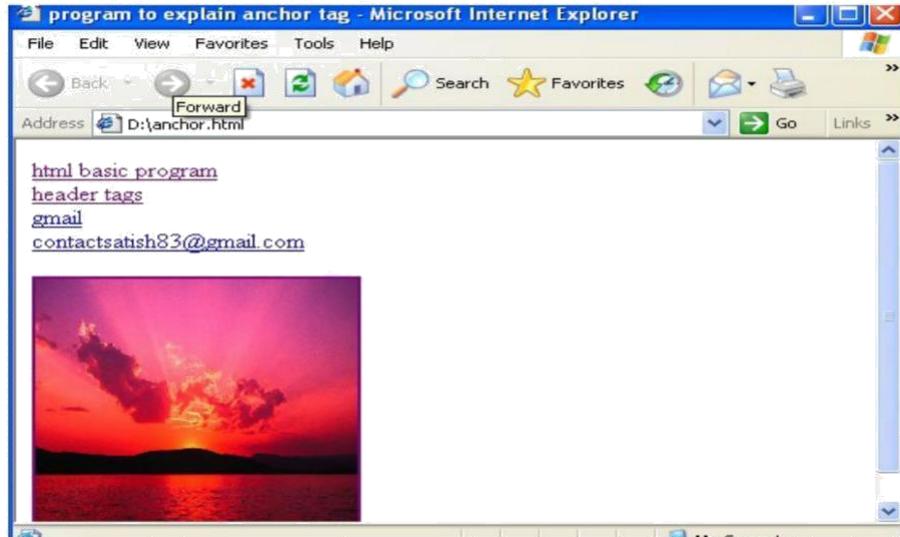
```
<html>
  <head>
    <title>program to explain header
tags</title> </head>
  <body>
    <h1>header1 font size </h1>
    <h2>header2 font size </h2>
    <h3>header3 font size </h3>
    <h4>header4 font size </h4>
    <h5>header5 font size </h5>
    <h6>header6 font size </h6>
  </body>
</html>
```

### anchor.html:

```
<html>
  <head>
    <title>program to explain anchor tag</title> </head>

  <body>
    <a href="first.html"> html basic program </a> <br/>
    <a href="header.html"> header tags </a> <br/>
    <a href="http://www.gmail.com"> gmail </a> <br/>
    <a href="mailto:contactsatish83@gmail.com">
      contactsatish83@gmail.com
    </a>
    <br/><br/>
    <a href="first.html">
      
    </a>
  </body>
</html>
```

### Output:



### **Program 5:**

write a html program to create ordered lists,unordered lists,nested lists

**ordered lists:**

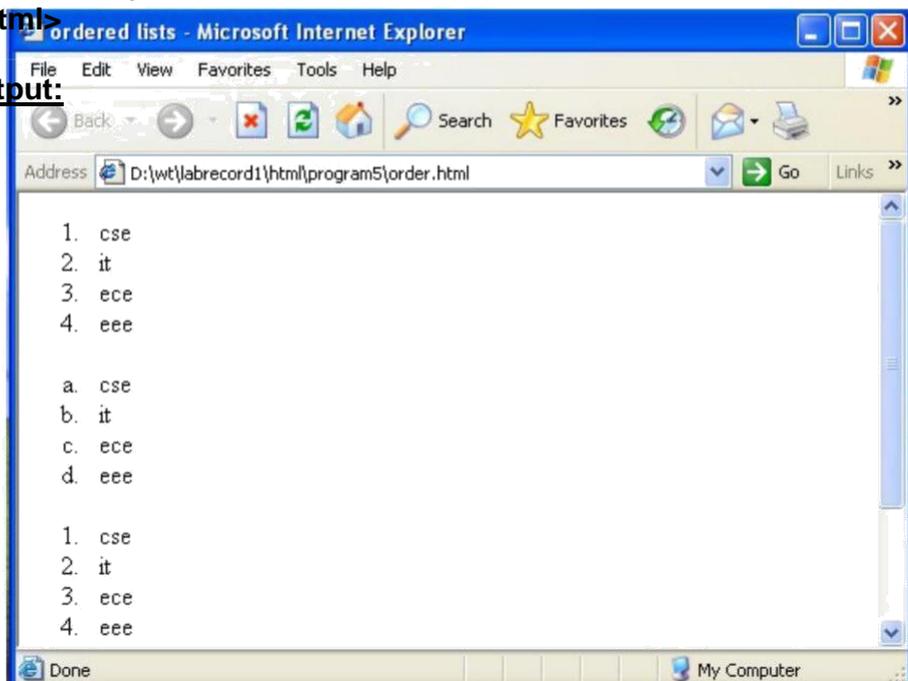
**order.html:**

```
<html>
  <head>
    <title>ordered lists</title> </head>

  <body>
    <ol>
      <li>cse</li>
      <li>it</li>
      <li>ece</li>
      <li>eee</li>
    </ol>
    <ol type="a">
```

```
        <li>cse</li>
        <li>it</li>
        <li>ece</li>
        <li>eee</li>
    </ol>
    <ol type="1">
        <li>cse</li>
        <li>it</li>
        <li>ece</li>
        <li>eee</li>
    </ol>
    <ol type="i">
        <li>cse</li>
        <li>it</li>
        <li>ece</li>
        <li>eee</li>
    </ol>
</body>
</html>
```

**Output:**

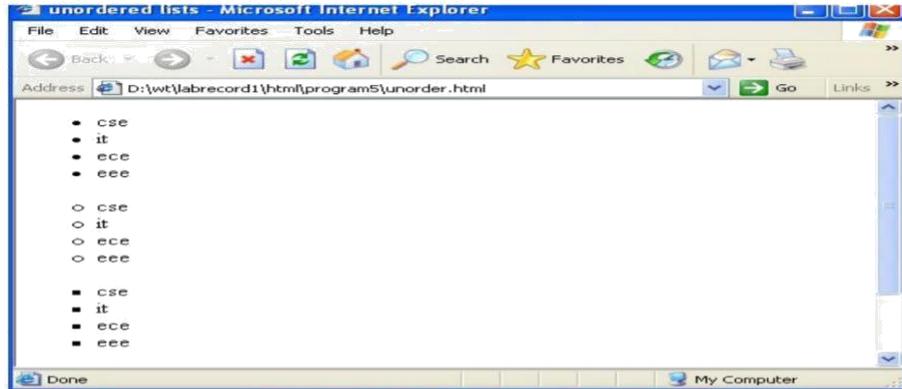


## Unordered lists:

### Unorder.html:

```
<html>
  <head>
    <title>unordered lists</title>
  </head>
  <body>
    <ul>
      <li>cse</li>
      <li>it</li>
      <li>ece</li>
      <li>eee</li>
    </ul>
    <ul type="circle">
      <li>cse</li>
      <li>it</li>
      <li>ece</li>
      <li>eee</li>
    </ul>
    <ul type="square">
      <li>cse</li>
      <li>it</li>
      <li>ece</li>
      <li>eee</li>
    </ul>
    <ul type="disc">
      <li>cse</li>
      <li>it</li>
      <li>ece</li>
      <li>eee</li>
    </ul>
  </body>
</html>
```

### Output:



**Nested lists:**

**Nested1.html:**

```

<html>
  <head>
    <title>Internet and WWW How to Program - Lists </title>

  </head>
  <body>
    <h1>The Best Features of the Internet</h1> <ul>

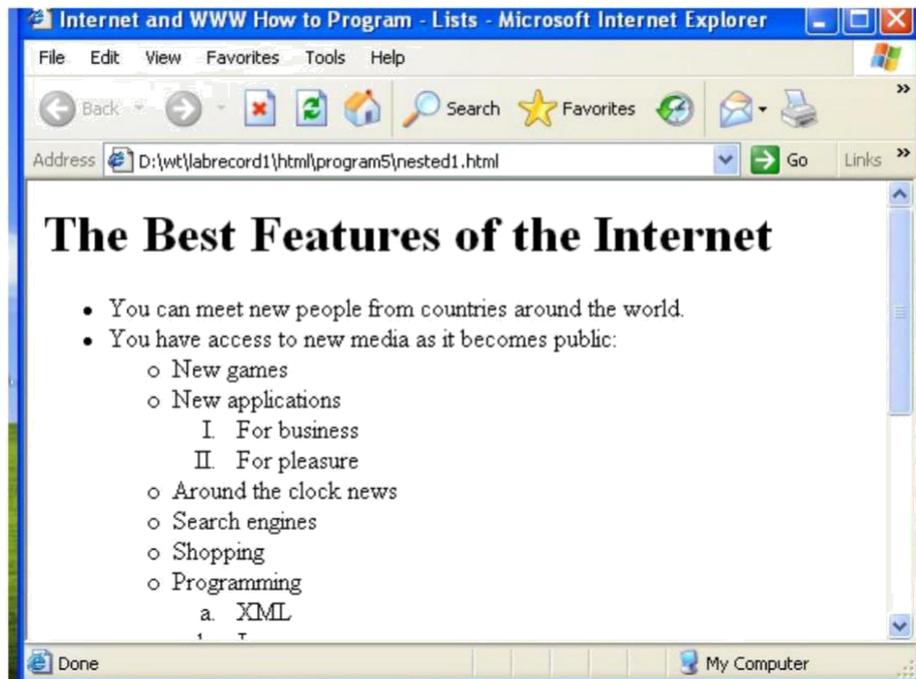
      <li>You can meet new people from countries around the
      world.</li>
      <li> You have access to new media as it becomes public:

        <ul>
          <li>New games</li>
          <li>
            New applications
            <ol type = "1">
              <li>For business</li>
              <li>For pleasure</li>
            </ol>
          </li>
          <li>Around the clock news</li>
          <li>Search engines</li>
          <li>Shopping</li>
          <li>
            Programming
            <ol type = "a">
              <li>XML</li>

```

```
</li>Java</li>
</li>XHTML</li>
</li>Scripts</li>
</li>New languages</li>
</ol>
</li>
</ul>
</li>
<li>Links</li>
<li>Keeping in touch with old friends</li> <li>It is
the technology of the future!</li>
</ul>
<h1>My 3 Favorite
<em>CEOs</em></h1> <ol>
<li>Harvey Deitel</li>
<li>Bill Gates</li>
<li>Michael Dell</li>
</ol>
</body>
</html>
```

**Output:**



### Program 6:

write a html program to create Time Table using tables

table2.html:

```

<html>
  <head>
    <title>html tables</title>
  </head>
  <body>
    <table border="5" width="800">
      <caption>
        <strong>
          <h2>Time Table</h2>
        </strong>
      </caption>
      <colgroup>
        <col align="right" span="8"/>
      </colgroup>
      <thead>

```

```

<tr>
  <th>DAY/TIME</th>
  <th>09.45-10.35</th>
  <th>10.35-11.25</th>
  <th>11.25-12.15</th>
  <th>12.15-12.55</th>
  <th>1.00-1.50</th>
  <th>1.50-2.40</th>
  <th>2.40-3.30</th>
</tr>
</thead>
<tbody>
<tr>
  <th>MONDAY</th>
  <td align="center">WT</td>
  <td align="center">ACA</td>
  <td align="center">DWDM</td>
  <td rowspan="7"
  align="center"><h3>LUNCH</h3></td>
  <td colspan="3" align="center">WT/NP
  LAB</td>
</tr>
<tr>
  <th>TUESDAY</th>
  <td align="center">WT</td>
  <td align="center">DWDM</td>
  <td align="center">ACA</td>
  <td align="center">SPM</td>
  <td align="center">NP</td>
  <td align="center">MT</td>
</tr>
<tr>
  <th>WEDNESDAY</th>
  <td colspan="3" align="center">WT/NP
  LAB</td>
  <td align="center">MT</td>
  <td align="center">SPM</td>
  <td align="center">NP</td>
</tr>
<tr>
  <th>THURSDAY</th>
  <td align="center">MT</td>
  <td align="center">SPM</td>
  <td align="center">NP</td>
  <td align="center">WT</td>
  <td align="center">ACA</td>

```

```

        <td align="center">DWDM</td>
    </tr>
    <tr>
        <th>FRIDAY</th>
        <td align="center">MT</td>
        <td align="center">SPM</td>
        <td align="center">NP</td>
        <td align="center">WT</td>
        <td align="center">ACA</td>
        <td align="center">DWDM</td>
    </tr>
    <tr>
        <th>SATURDAY</th>
        <td align="center">WT</td>
        <td align="center">ACA</td>
        <td align="center">DWDM</td>
        <td align="center">MT</td>
        <td align="center">SPM</td>
        <td align="center">NP</td>
    </tr>
</tbody>
</table>
</body>
</html>

```

**Output:**

DAY/TIME	09.45-10.35	10.35-11.25	11.25-12.15	12.15-12.55	1.00-1.50	1.50-2.40	2.40-3.30
MONDAY	WT	ACA	D'WDM	<b>LUNCH</b>	WDNP LAB		
TUESDAY	WT	D'WDM	ACA		SPM	NP	MT
WEDNESDAY	WDNP LAB				MT	SPM	NP
THURSDAY	MT	SPM	NP		WT	ACA	D'WDM
FRIDAY	MT	SPM	NP		WT	ACA	D'WDM
SATURDAY	WT	ACA	D'WDM		MT	SPM	NP

**Program 7:**

write a html program to create a feedback form for a website

feedback.html:

```

<html>
  <head>
    <title>Internet and WWW How to Program - Forms</title>
  </head>
  <body>
    <h1>Feedback Form</h1>
    <p>Please fill out this form to help us improve our site.</p>

    <form method = "post" action = "/cgi-bin/formmail"> <p>

```

```

  <label>Name:
    <input name = "name" type = "text"
      size = "25" />

```

```

  </label>
</p>

```

```

<p>
    <label>Comments:
        <br />
        <textarea name = "comments" rows = "4"
            cols="36">
            Enter your comments here.
        </textarea>
    </label>
</p>
<p>
    <label>E-mail Address:
        <input name = "email" type = "password"
            size = "25" />
    </label>
</p>
<p>
    <strong>Things you liked:</strong><br />
    <label>Site design
        <input name = "thingsliked" type =
            "checkbox" value = "Design"/>
    </label>
    <label>Links
        <input name = "thingsliked" type =
            "checkbox" value = "Links" />
    </label>
    <label>Ease of use
        <input name = "thingsliked" type =
            "checkbox" value = "Ease" />
    </label>
    <label>Images
        <input name = "thingsliked" type =
            "checkbox" value = "Images" />
    </label>
    <label>Source code
        <input name = "thingsliked" type =
            "checkbox" value = "Code" />
    </label>
</p>
<p>
    <strong>How did you get to oursite?:
    </strong><br />
    <label>Search engine
        <input name = "howtosite" type = "radio" value
            = "search engine" checked
            = "checked" />
    </label>
    <label>Links from another site

```

```

        <input name = "howtosite" type =
        "radio" value = "link" />
    </label>
    <label>Deitel.com Web site
        <input name = "howtosite" type =
        "radio" value = "deitel.com" />
    </label>
    <label>Reference in a book
        <input name = "howtosite" type =
        "radio" value = "book" />
    </label>
    <label>Other
        <input name = "howtosite" type =
        "radio" value = "other" />
    </label>
</p>
<p>
<label>Rate our site:
    <select name = "rating">
        <option selected = "selected">
            Amazing
        </option>
        <option>10</option>
        <option>9</option>
        <option>8</option>
        <option>7</option>
        <option>6</option>
        <option>5</option>
        <option>4</option>
        <option>3</option>
        <option>2</option>
        <option>1</option>
        <option>Awful</option>
    </select>
</label>
</p>
<p>
    <input type = "submit" value = "Submit Your Entries"
    />
    <input type = "reset" value = "Clear Your Entries" />
</p>
</form>
</html>

```

Output:

The screenshot shows a web browser window with the following elements:

- Address Bar:** Displays the URL `D:\psdsh\labrecord\program7\feedback.html`.
- Search Bar:** Includes a search engine icon (Ask) and a search button.
- Navigation Bar:** Contains icons for CNN, YouTube, Games, Celebrity, Amazon, and Options.
- Form Title:** **Feedback Form**
- Text:** "Please fill out this form to help us improve our site."
- Input Fields:**
  - Name:
  - Comments:
  - E-mail Address:
- Things you liked:** Site design  Links  Ease of use  Images  Source code
- How did you get to our site?:** Search engine  Links from another site  Deitel.com Web site  Reference in a book  Other
- Rate our site:**
- Buttons:**

## Program 8:

write a html program to create frames with in a web document

### frame1.html:

```
<html>
  <head>
    <title>Internet and WWW How to Program -frames</title> </head>

    <frameset cols = "160,*">
      <frame name = "leftframe" src = "nav.html" /> <frame
        name = "main" src = "first.html" /> <noframes>

        <p>
          This page uses frames, but your browser
          does not support them.

        </p>
        <p>
          Please, <a href = "nav.html">follow this link to
          browse our site without frames</a>. </p>

      </noframes>
    </frameset>
  </html>
```

### nav.html:

```
<html>
  <head>
    <title>nav.html</title>
  </head>
  <body>
    <a href="first.html" target="main"> first
      program</a><br/>
    <a href="header.html" target="main">
      header program</a><br/>
  </body>
</html>
```

### first.html:

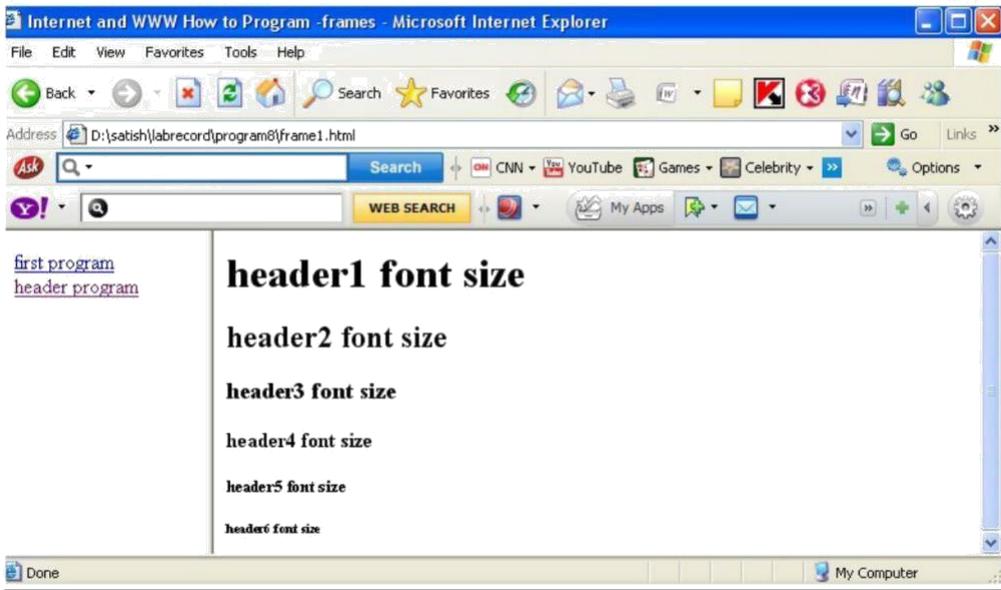
```
<html>
  <head>
    <title>my first html program</title>
```

```
</head>
<body>
  <center>
    <p>welcome to html programming </p>
  </center>
</body>
</html>
```

**header.html:**

```
<html>
  <head>
    <title>program to explain header
tags</title> </head>
  <body>
    <h1>header1 font size </h1>
    <h2>header2 font size </h2>
    <h3>header3 font size </h3>
    <h4>header4 font size </h4>
    <h5>header5 font size </h5>
    <h6>header6 font size </h6>
  </body>
</html>
```

**Output:**



**Program 9:**

**write a html program to create links with in the same web document(inter linking)**

**interlink.html:**

```

<html>
  <head>
    <title>Internal linking</title>
  </head>
  <body>
    <p></p>
    <h1 id="features">The Best Features of the Internet</h1> <p><a href =
"#ceos">Go to <em>Favorite CEOs</em></a></p> <ul>

      <li>You can meet people from countries around the world.</li>

      <li>You have access to new media as it becomes public:
        <ul>
          <li>New games</li>
          <li>New applications
            <ul>
              <li>For Business</li>
              <li>For Pleasure</li>
            </ul>
          </li>
          <li>Around the clock news</li>
          <li>Search Engines</li>
          <li>Shopping</li>
          <li>Programming
            <ul>
              <li>XHTML</li>
              <li>Java</li>
              <li>Dynamic HTML</li>
              <li>Scripts</li>
              <li>New languages</li>
            </ul>
          </li>
        </ul>
      </li>
      <li>Links</li>
      <li>Keeping in touch with old friends</li> <li>It is
the technology of the future!</li>
    </ul><br/>
    <h1 id="ceos">My 3 Favorite <em>CEOs</em></h1> <p>
      <a href = "#features">Go to <em>Favorite Features</em>
    </a></p>
    <ol>
      <li>Bill Gates</li>
      <li>Steve Jobs</li>
      <li>Michael Dell</li>

```

```
</ol>
</body>
</html>
```

**Output:**



## Program 10:

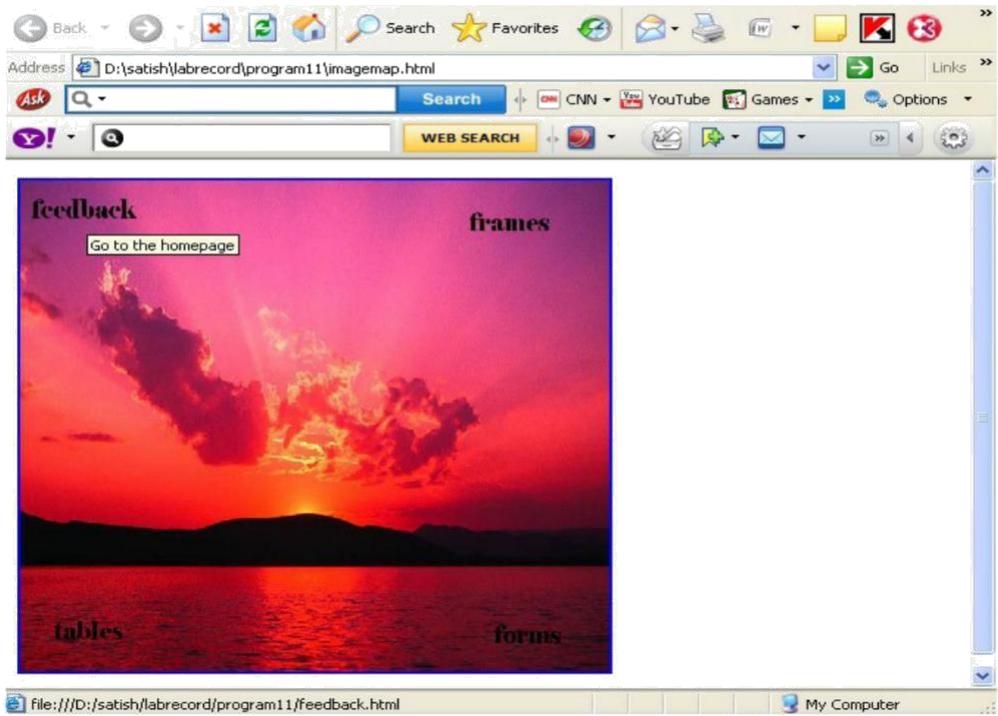
write a html program to create image maps

imagemap.html:

```
<html>
  <head>
    <title>
      Internet and WWW How to Program - Image
      Map </title>
    </head>
  <body>
    <p>
      <map id = "picture">
        <area href = "feedback.html" shape = "rect"
```

```
        coords = "3,7,72,25" alt = "Go to the
        homepage" />
<area href = "frame1.html" shape = "rect"
        coords = "300,18,356,40"
        alt = "Go to the links page" />
<area href = "table2.html" shape = "rect"
        coords = "3,360,72,370"
        alt = "Go to the feedback form" /> <area href
= "form1.html" shape = "rect"
        coords = "330,365,365,380"
        alt = "Go to the contact page" />
</map>
<img src = "sunset1.jpg" width = "400" height = "400" alt =
"Deitel logo" usemap = "#picture" />
</p>
</body>
</html>
```

output:



**Program 11:**

**write a html program to create inline stylesheets, embedded stylesheets and external stylesheets**

**inline stylesheets:**

**inline.html:**

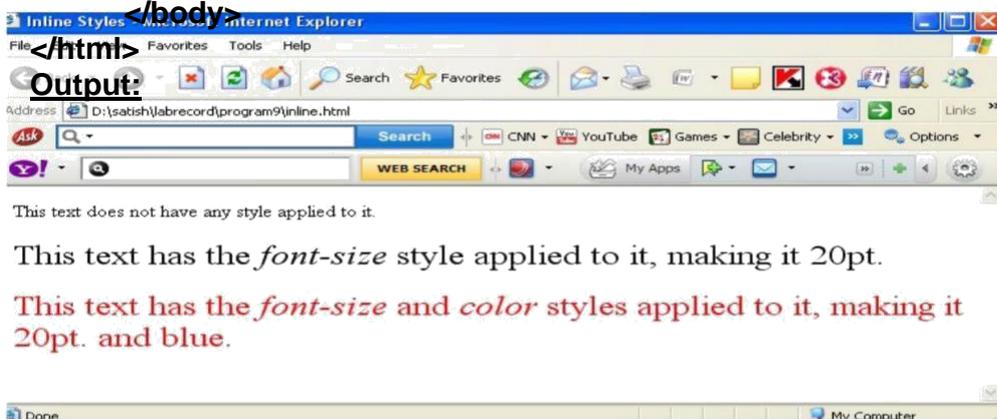
**<html>**

```

<head>
  <title>Inline Styles</title>
</head>
<body>
  <p>This text does not have any style applied to it.</p> <p style = "font-size: 20pt">This text has the
  <em>font-size</em> style applied to it, making it 20pt. </p>

  <p style = "font-size: 20pt; color: #ff0000"> This text has
  the <em>font-size</em> and
  <em>color</em> styles applied to it, making it 20pt. and
  blue.</p>
</body>

```



### Embedded stylesheets:

#### embedded2.html:

```

<html>
  <head>
    <title>embedded Styles</title>
    <style type = "text/css">
      a.nodect { text-decoration: none }
      a:hover { text-decoration: underline;
                color: red;
                background-color: #ccffcc }
      li em { color: red;
              font-weight: bold }
      ul { margin-left: 75px }
      ul ul { text-decoration: underline;

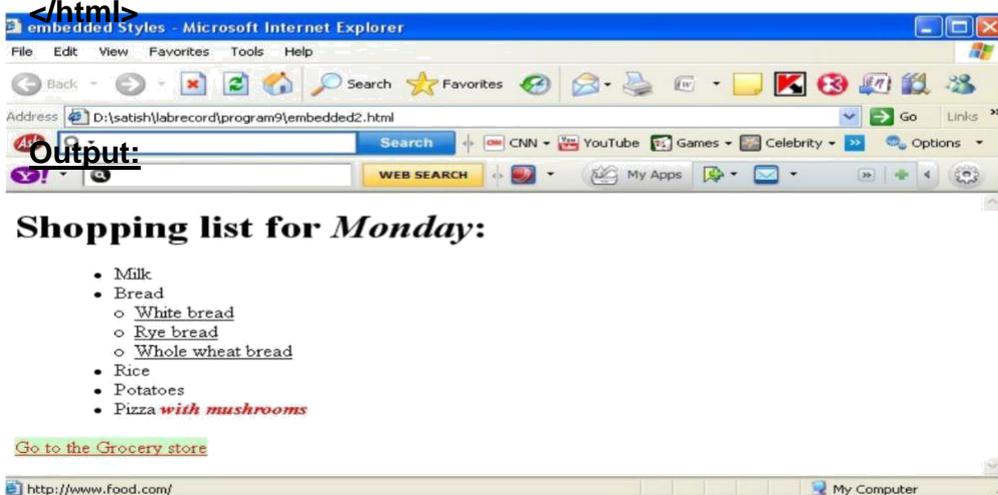
```

```

margin-left: 15px }
</style>
</head>
<body>
  <h1>Shopping list for <em>Monday</em>:</h1> <ul>
    <li>Milk</li>
    <li>Bread
      <ul>
        <li>White bread</li>
        <li>Rye bread</li>
        <li>Whole wheat bread</li>
      </ul>
    </li>
    <li>Rice</li>
    <li>Potatoes</li>
    <li>Pizza <em>with mushrooms</em></li> </ul>

  <p><a class = "nodec" href = "http://www.food.com"> Go to the
  Grocery store</a></p>
</body>
</html>

```



### External stylesheets:

styles.css:

```
a { text-decoration: none }
a:hover { text-decoration: underline;
          color: red;
          background-color: #ccffcc }
li em { color: red;
        font-weight: bold;
        background-color: #ffffff }
ul { margin-left: 2cm }
ul ul { text-decoration: underline;
        margin-left: 15px }
```

external.html:

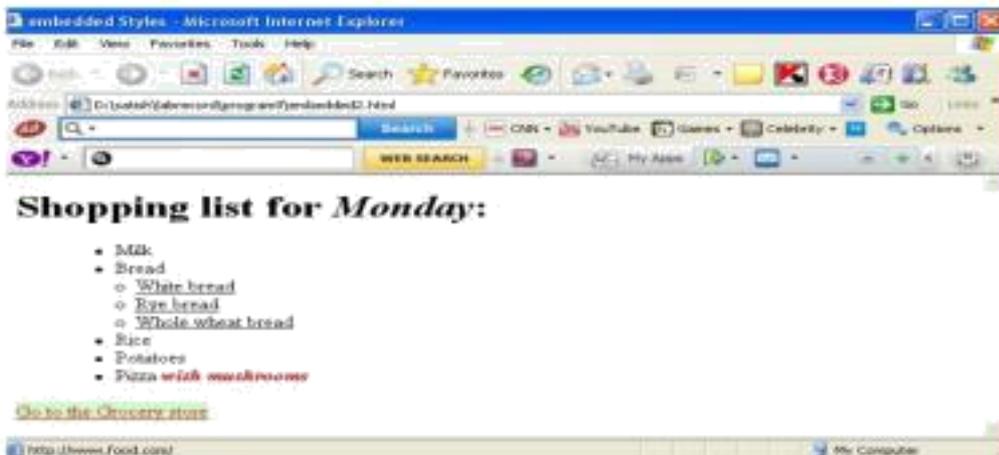
```
<html>
  <head>
    <title>More Styles</title>

    <link rel = "stylesheet" type = "text/css"
          href = "styles.css" />
  </head>
  <body>
    <h1>Shopping list for <em>Monday</em>:</h1> <ul>

      <li>Milk</li>
      <li>Bread
        <ul>
          <li>White bread</li>
          <li>Rye bread</li>
          <li>Whole wheat bread</li>
        </ul>
      </li>
      <li>Rice</li>
      <li>Potatoes</li>
      <li>Pizza <em>with mushrooms</em></li> </ul>

    <p><a class = "nodec" href = "http://www.food.com"> Go to the
      Grocery store</a></p>
  </body>
</html>
```

Output:



## Program 12:

Develop static pages (using Only HTML) of an online Book store. The pages should resemble: [www.amazon.com](http://www.amazon.com). The website should consist of the following pages.

Home page  
Registration  
User Login  
Books catalog

### main.html:

```
<html>
  <head>
    <title>home page</title>
  </head>
  <body>
    <center>
      <b><h1>welcome to amazon.com</h1></b><br><br>
      <form method="post" action="login.html">
        <input type="submit" value="click"/>
      registration user login here
    </center>
```



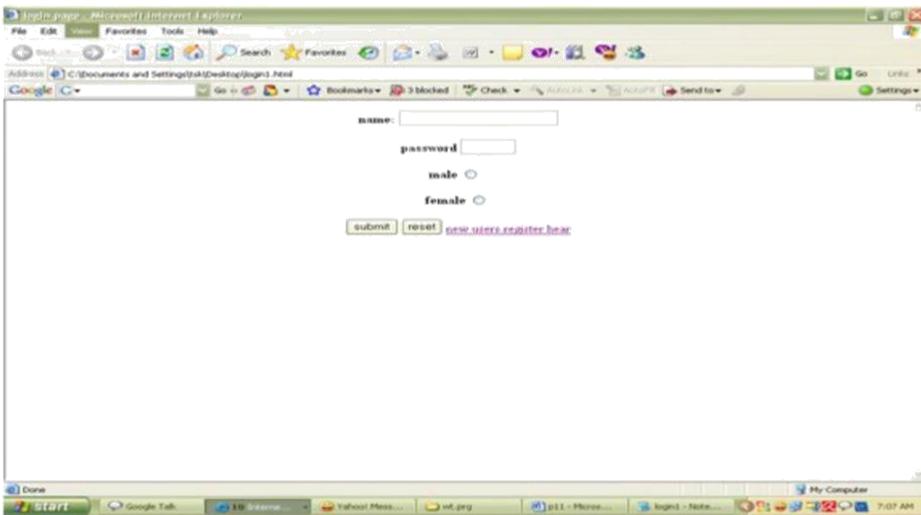


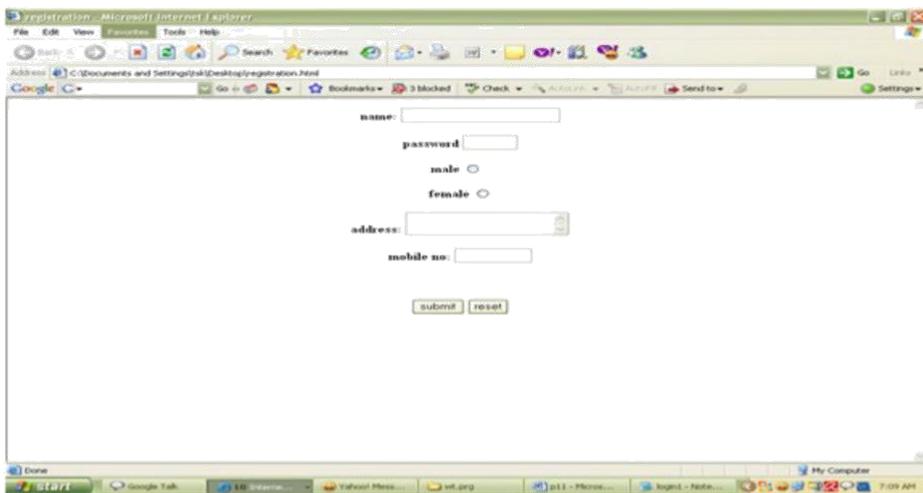
```
        </center>
    </body>
</html>
```

**bookcatalog.html:**

```
<html>
  <head>
    <title>books catalog</title>
  </head>
  <body>
    <center>
      <h1><p>welcome to books catalog</p></h1> <table
      border="1"width="25%"height="50%">
        <tr>
          <th>computers</th>
          <th>electronics</th>
          <th>biotech</th>
          <th>mechanical</th>
        </tr>
      </center>
    </body>
  </html>
```

**Output:**





**Program 13:**

write a javascript program to wish the user according to time

**wish.html:**

```

<html>
  <head>
    <title>wish the user</title> <script type =
      "text/javascript"> <!--

        var d1, hours, name;
        d1 = new Date();
        hours = d1.getHours();
        name = window.prompt("enter your name", "sat"); if( hours
        <12)
            document.writeln("<h1>hello "+ name + ",good
            morning");
        if( hours >= 12)
        {
            hours = hours-12;
            if(hours < 6 )
                document.writeln("<h1>hello "+ name + ",good
                afternoon");
            if( hours >= 6 )
                document.writeln("<h1>hello "+ name + ",good
                evening");

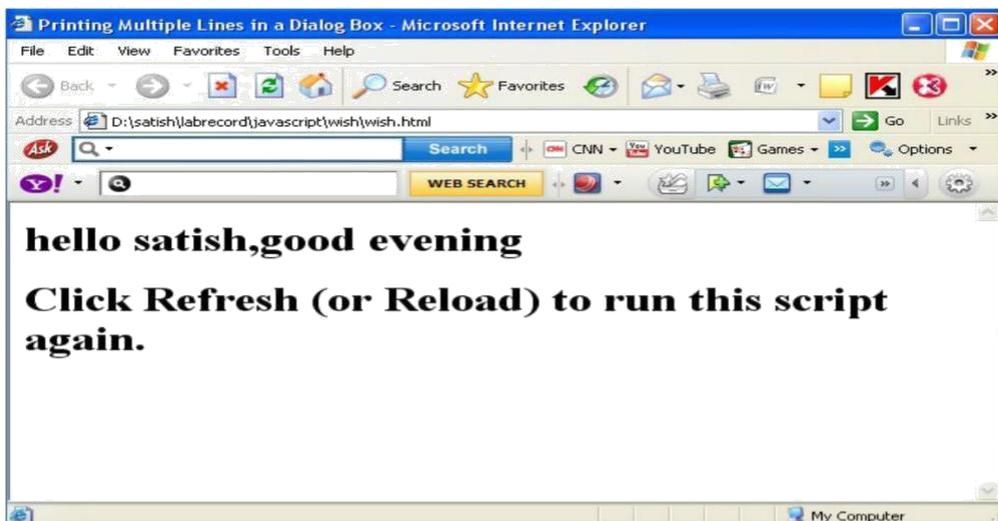
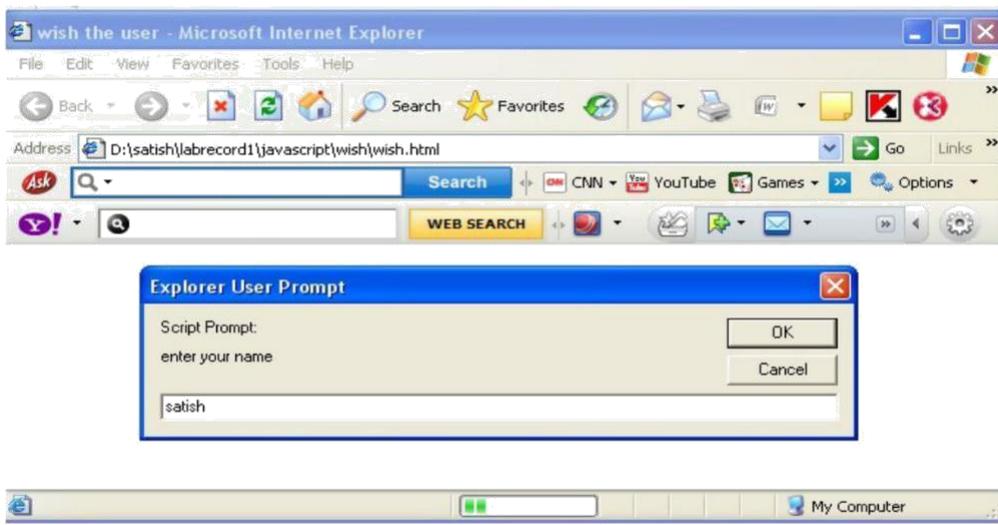
        }
        // -->
    </script>
  </head>

  <body>
    <p>Click Refresh (or Reload) to run this script again.</p> </body>

</html>

```

**Output:**



### Program 14:

write a javascript program to display list of items according to users choice

- 1 unordered list
- 2 order list

### 3 ordered list using alphabets

#### switch.html:

```
<html>
<head>
  <title>Switching between XHTML List Formats</title> <script
  type = "text/javascript"> <!--

    var choice,startTag,endTag,validInput = true,listType; choice =
    window.prompt( "Select a list style:\n" +
      "1 (bullet), 2 (numbered), 3 (lettered)", "1" );
    switch ( choice )
    {
      case "1":
        startTag = "<ul>";
        endTag = "</ul>";
        listType = "<h1>Bullet List</h1>"; break;

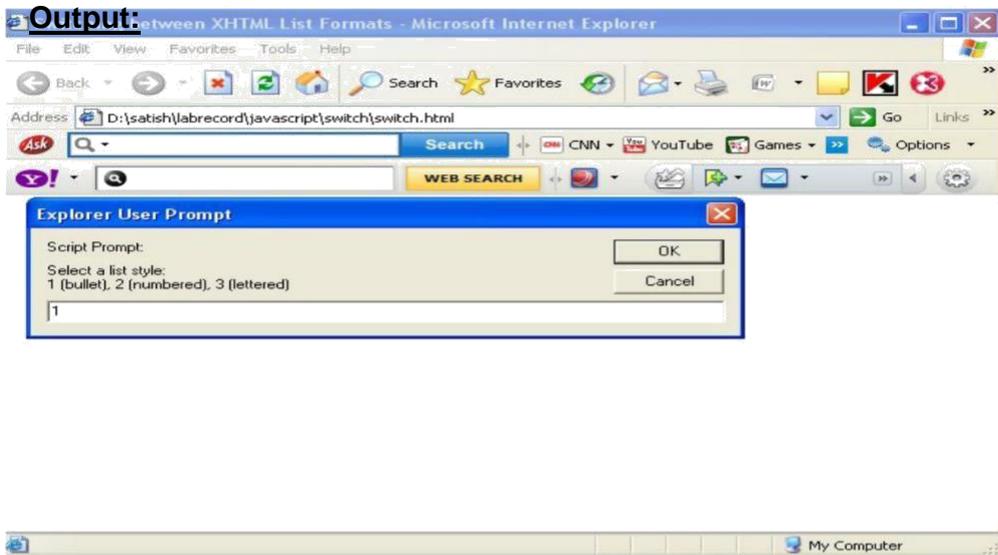
      case "2":
        startTag = "<ol>";
        endTag = "</ol>";
        listType = "<h1>Ordered List: Numbered</h1>"; break;

      case "3":
        startTag = "<ol type = 'A'>";
        endTag = "</ol>";
        listType = "<h1>Ordered List: Lettered</h1>"; break;

      default:
        validInput = false;
    }
    if ( validInput == true )
    {
      document.writeln( listType + startTag );
      for ( var i = 1; i <= 3; ++i )
        document.writeln( "<li>List item " + i + "</li>" );
      document.writeln( endTag );
    }
    else
      document.writeln( "Invalid choice: " + choice );
    // -->
  </script>
</head>
<body>
```

<p>Click Refresh (or Reload) to run the script again</p> </body>

</html>



### Program 15:

write a javascript program to develop craps game,the rules of the game are

- 1) In the first throw of the 2 dice if the sum of two numbers on the top of the 2 dice is equals to either 7 or 11 the user wins the game
- 2) In the first throw of the 2 dice if the sum of two numbers on the top of the 2 dice is equals to either 2 or 3 or 12 the user losses the game
- 3) In the first throw of the 2 dice if the sum of two numbers on the top of the 2 dice is equals to either 4 or 5 or 6 or 8 or 9 or 10 then the user gets that sum as his/her point and he has to continue rolling dice until he/she gets next sum equals to point which means he/she wins the game ,mean while if he/she gets sum as 7 indicates loss of game

### Crapsgame.html:

```
<html>
  <head>
    <title>Program that Simulates the Game of Craps</title> <script type
    = "text/javascript">
    <!--
```

```

var WON = 0, LOST = 1, CONTINUE_ROLLING = 2;
var firstRoll=true,sumOfDice=0,myPoint=0;
var gameStatus= CONTINUE_ROLLING;
function play()
{
  if ( firstRoll )
  {
    sumOfDice = rollDice();
    switch ( sumOfDice )
    {
      case 7: case 11:
        gameStatus = WON;
        document.craps.point.value = "";
        break;
      case 2: case 3: case 12:
        gameStatus = LOST;
        document.craps.point.value = "";
        break;
      default:
        gameStatus = CONTINUE_ROLLING; myPoint =
        sumOfDice; document.craps.point.value =
        myPoint; firstRoll = false;
    }
  }
  else
  {
    sumOfDice = rollDice();
    if ( sumOfDice == myPoint )
      gameStatus = WON;
    else
      if ( sumOfDice == 7 )
        gameStatus = LOST;
  }
  if ( gameStatus == CONTINUE_ROLLING )
    window.status = "Roll again";
  else
  {
    if ( gameStatus == WON ) window.status =
      "Player wins. " +
      "Click Roll Dice to play again.";
    else
      window.status = "Player loses. " + "Click Roll
      Dice to play again.";
    firstRoll = true;
  }
}
}

```

```

function rollDice()
{
    var die1, die2, workSum;
    die1 = Math.floor( 1 + Math.random() * 6 ); die2 =
    Math.floor( 1 + Math.random() * 6 ); workSum = die1
    + die2; document.craps.firstDie.value = die1;
    document.craps.secondDie.value = die2;
    document.craps.sum.value = workSum; return
    workSum;

}
// -->
</script>
</head>

<body>

<form name = "craps" action = ""> <table
border = "1">
    <caption>Craps</caption>
    <tr><td>Die 1</td>
    <td><input name = "firstDie" type = "text" />
    </td></tr>
    <tr><td>Die 2</td>
    <td><input name = "secondDie" type = "text" />
    </td></tr>
    <tr><td>Sum</td>
    <td><input name = "sum" type = "text" />
    </td></tr>
    <tr><td>Point</td>
    <td><input name = "point" type = "text" /> </td></tr>

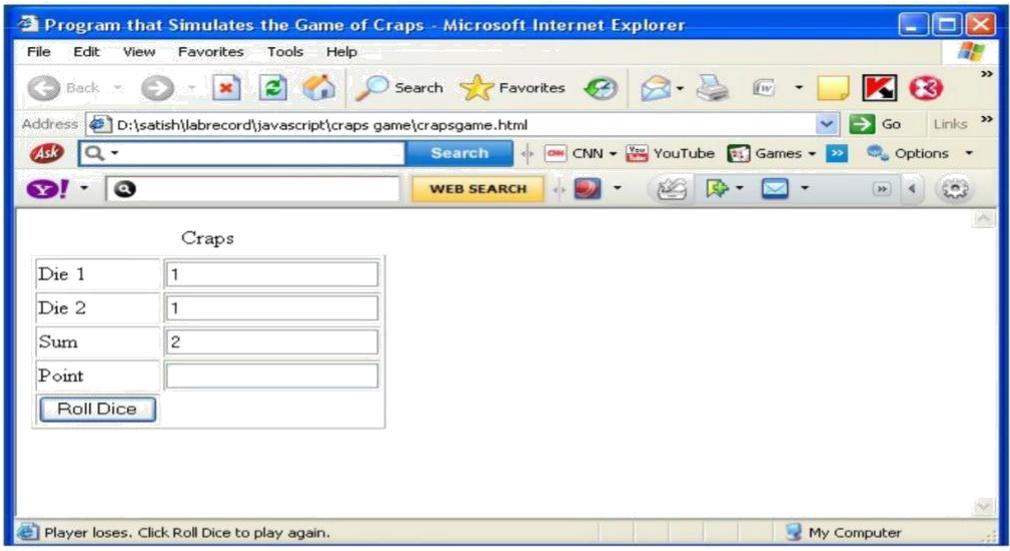
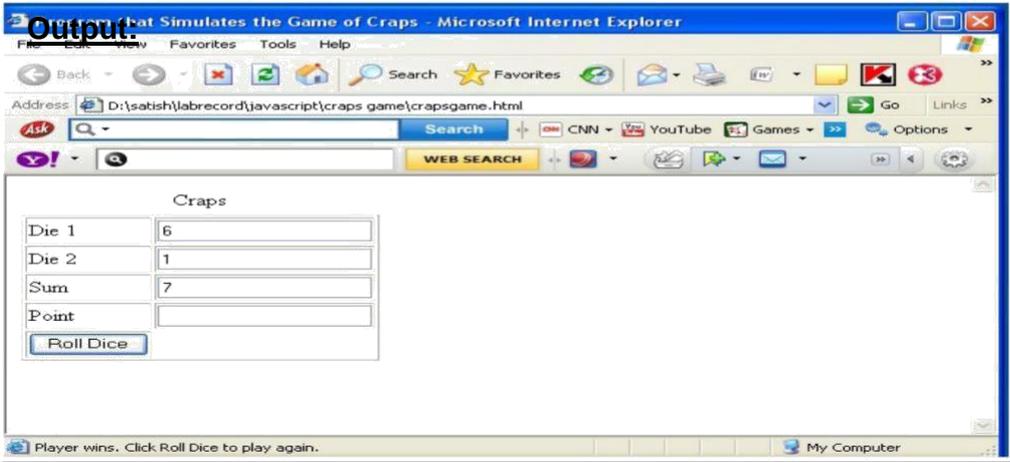
    <tr><td><input type = "button" value = "Roll Dice"
        onclick = "play()" /></td></tr>
</table>
</form>

</body>

</html>

```

Output:



### Program 16:

write a javascript program to split a given sentence into set of tokens or words by using space character as delimiter

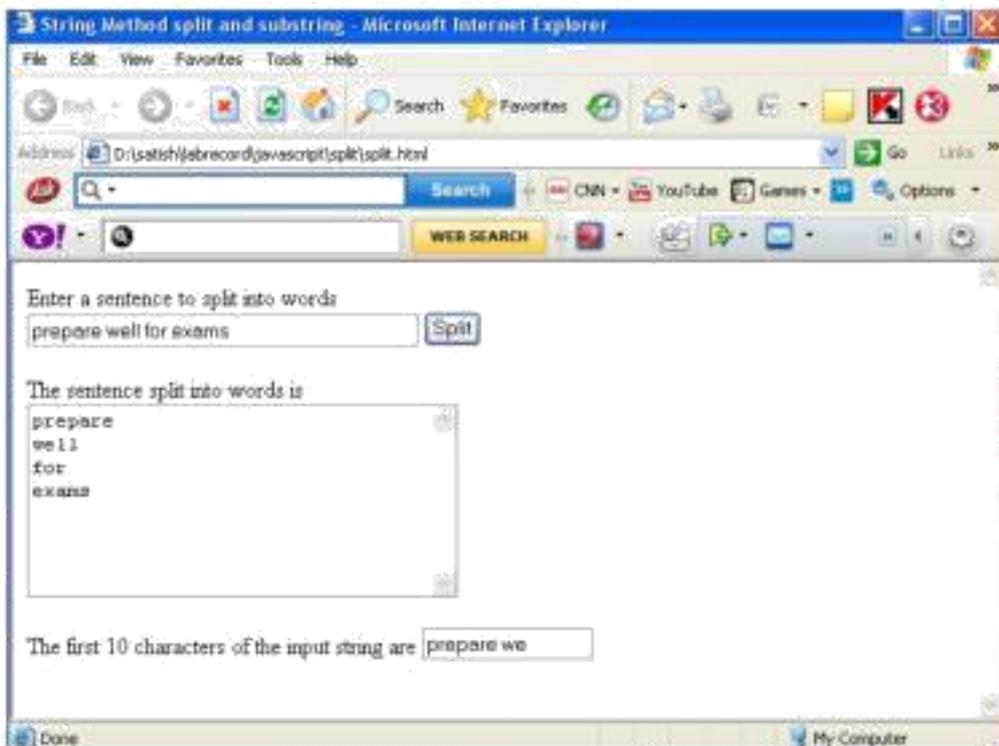
#### split.html:

```
<html>
  <head>
    <title>String Method split and substring</title> <script type
    = "text/javascript"> <!--

    function splitButtonPressed()
    {
      var strings=myForm.inputVal.value.split(" ");
      myForm.output.value = strings.join( "\n" );
      myForm.outputSubstring.value =
        myForm.inputVal.value.substring( 0, 10 );
    }
    // -->
  </script>
</head>
<body>
  <form name = "myForm" action = "">
    <p>Enter a sentence to split into words<br /> <input
    name="inputVal" type="text" size="40" /> <input
    name="splitButton" type ="button" value = "Split" onclick
    = "splitButtonPressed()" /> </p>

    <p>The sentence split into words is<br />
    <textarea name = "output" rows = "8" cols = "34">
    </textarea>
    </p>
    <p>The first 10 characters of the input string are <input name
    = "outputSubstring" type = "text"
    size = "15" /></p>
  </form>
</body>
</html>
```

#### Output:



### Program 17:

write a javascript program to explain about onload event

onload.html:

```
<html>
  <head>
    <title>DHTML Event Model - onload</title>
```

```

<script type = "text/javascript"> <!--

var seconds = 0;
function startTimer()
{
    window.setInterval( "updateTime()", 1000 );
}
function updateTime()
{
    seconds++;
    soFar.innerHTML = seconds;
}
// -->
</script>
</head>
<body onload = "startTimer()">
    <p>Seconds you have spent viewing this page so far:
    <a id = "soFar"><strong>0</strong></a></p>
</body>
</html>

```



### Program 18:

write a javascript program to explain about onmousemove event

onmousemove.html:

```

<html>
<head>
    <title>DHTML Event Model - onmousemove event</title> <script
    type = "text/javascript"> <!--

function updateMouseCoordinates()
{
    coordinates.innerHTML = event.srcElement.tagName +
    " (" + event.offsetX + ", " + event.offsetY + ")";

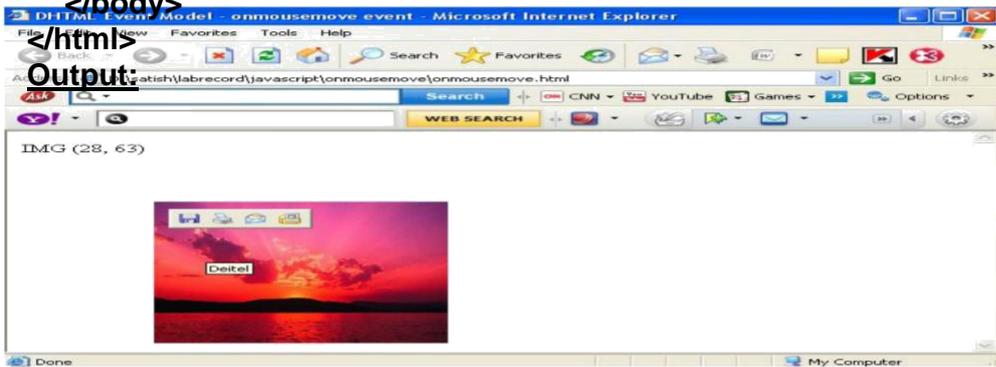
```

```

    }
    // -->
    </script>
</head>
<body style = "back-groundcolor: wheat" onmousemove
= "updateMouseCoordinates()"> <span id =
"coordinates">(0, 0)</span><br />
<img src = "sunset.jpg" style = "position: absolute; top:100;left:100" alt
= "Deitel" width="200" height="200"/>
</body>
</html>

```

Output:



## Program 19:

Write a javascript program to explain about onfocus,onblur ,onsubmit ,onreset events

### Onfocusonblur.html:

```

<html>
  <head>
    <title>
      DHTML Event Model - onfocus onblur onsubmit onreset </title>
    </head>
    <script type = "text/javascript"> <!--

```

```

var helpArray =
  [ "Enter your name in this input box.",
    "Enter your email address in this input box, " + "in the format
    user@domain.",
    "Check this box if you liked our site.", 44

```

"In this box, enter any comments you would " + "like us  
to read.",  
"This button submits the form to the " + "server-  
side script",  
"This button clears the form",  
"This textarea provides context-sensitive " + "help. Click on  
any input field or use the TAB" + "key to get more  
information about the " + "input field." ];

```
function helpText( messageNum )
{
  myForm.helpBox.value = helpArray[ messageNum ];
}
function formSubmit()
{
  window.event.returnValue = false;
  if ( confirm ( "Are you sure you want to submit?" ) )
    window.event.returnValue = true;
}
function formReset()
{
  window.event.returnValue = false;
  if ( confirm( "Are you sure you want to reset?" ) )
    window.event.returnValue = true;
}
// -->
</script>
</head>
<body>
<form id="myForm" method="post" action=""
  onsubmit="formSubmit()" onreset="formReset()">

  Name: <input type = "text" name = "name"
    onfocus = "helpText(0)" onblur = "helpText(6)"/><br />

  Email: <input          type = "text" name = "email"
    onfocus = "helpText(1)" onblur = "helpText(6)"/><br />

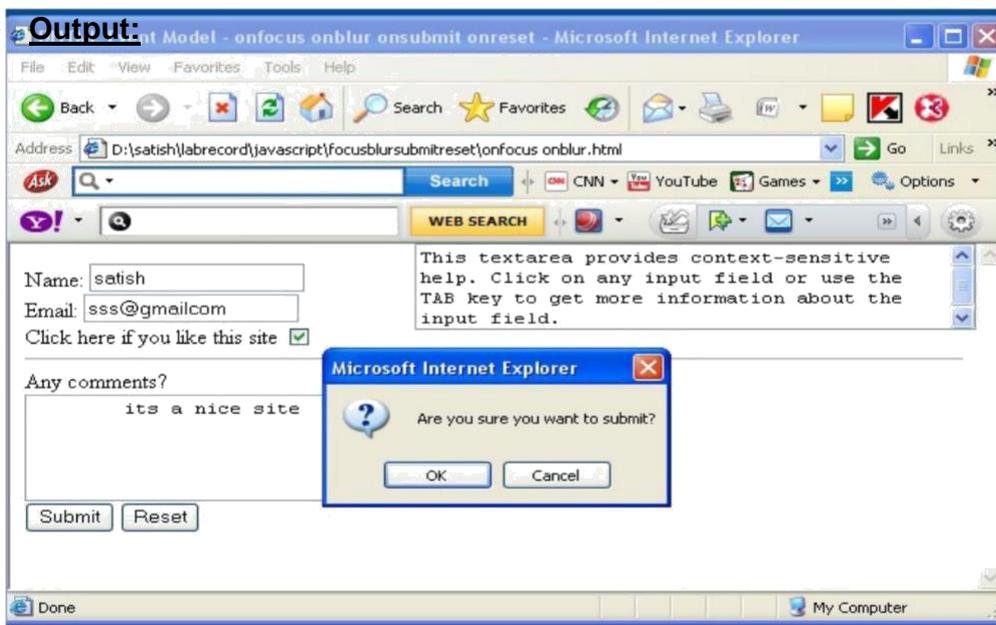
  Click here if          you like this site
  <input type = "checkbox" name = "like" onfocus =
    "helpText(2)" onblur = "helpText(6)" /><br /><hr />
  Any comments?<br />
  <textarea name          = "comments" rows = "5" cols = "45"
    onfocus = "helpText(3)" onblur = "helpText(6)">
  </textarea><br      />

  <input type = "submit" value = "Submit" onfocus =
```

```
"helpText(4)" onblur = "helpText(6)" /> <input type = "reset" value =  
"Reset" onfocus = "helpText(5)" onblur = "helpText(6)" />  
<textarea name = "helpBox" style = "position: absolute;  
right: 0; top: 0" rows = "4" cols = "45">
```

This textarea provides context-sensitive help. Click on any input field or use the Tab key to get more information about the input field.

```
</textarea>  
</form>  
</body>  
</html>
```



## Program 20:

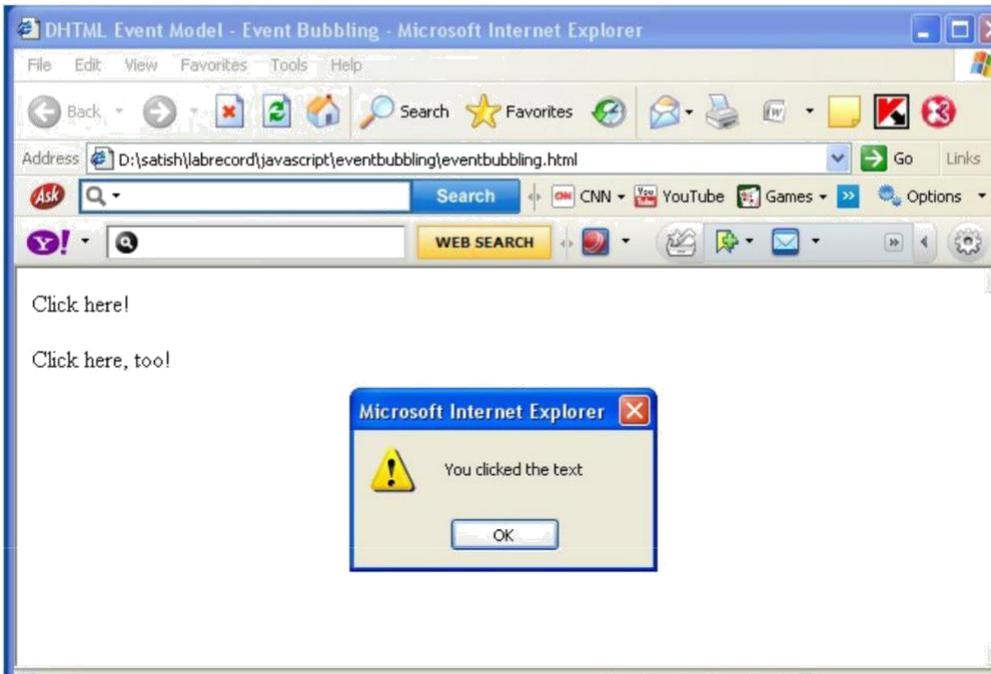
Write a javascript program to explain about event bubbling

### Eventbubbling.html:

```
<html>
  <head>
    <title>DHTML Event Model - Event Bubbling</title> <script
      type = "text/javascript"> <!--

        function documentClick()
        {
          alert( "You clicked in the document" );
        }
        function bodyClick()
        {
          alert( "You clicked in the body" );
        }
        function paragraphClick( value )
        {
          alert( "You clicked the text" );
          if ( value )
            event.cancelBubble = true;
        }
        document.onclick = documentClick;
        // -->
      </script>
    </head>
    <body onclick="bodyClick()">
      <p onclick = "paragraphClick( false )">Click here!</p>
      <p onclick = "paragraphClick( true )" >Click here, too! </p> </body>
</html>
```

**Output:**



**Program 21:**

Write a javascript program which displays the different element/tag names of a web document using “all” collection object

all1.html:

```
<html>
<head>
  <title>Object Model</title> <script type =
    "text/javascript"> <!--

    var elements = "";
    function start()
    {
      for ( var loop = 0; loop < document.all.length; ++loop ) elements += "<br />"
        + document.all[ loop ].tagName;
      pText.innerHTML +=
        elements; alert( elements );
    }
    // -->
  </script>
</head>
<body onload = "start()">
  <p id = "pText">
    Elements on this Web page:
  </p>
</body>
</html>
```

Output:



Elements on this Web page:

HTML  
HEAD  
TITLE  
SCRIPT  
BODY  
P



## **Program 22:**

**Write a javascript program which displays the different element/tag names of a web document using “children” collection object**

**Children1.html:**

```

<html>
<head>
  <title>Object Model</title> <script type =
  "text/javascript"> <!--

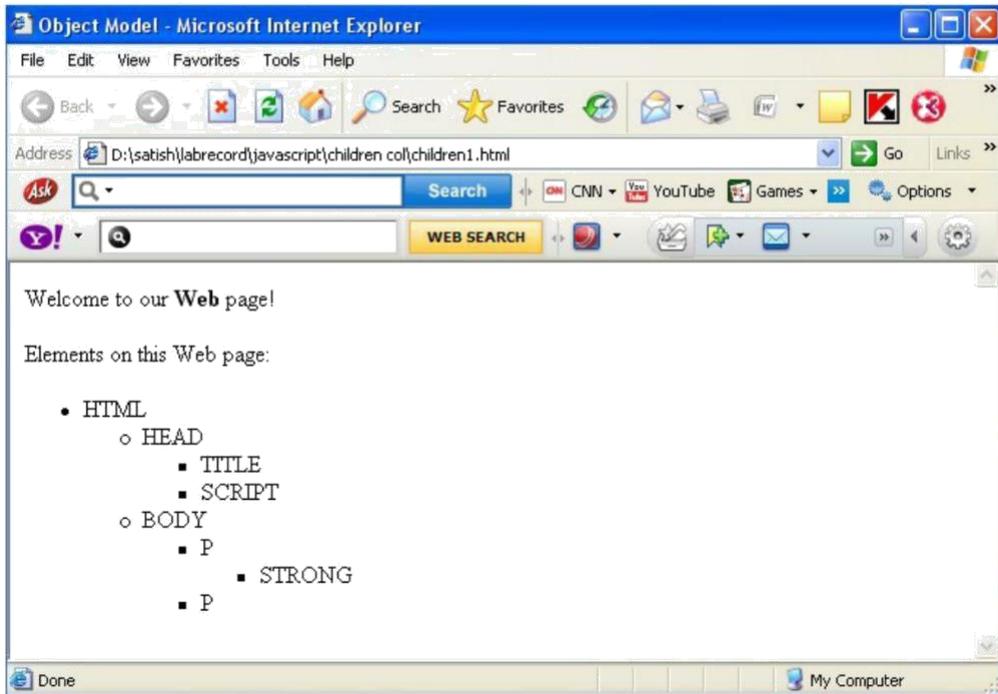
    var elements = "<ul>";
    function child( object )
    {
      var loop = 0;
      elements += "<li>" + object.tagName + "<ul>";
      for ( loop = 0; loop < object.children.length; loop++ )
      {
        if ( object.children[ loop ].children.length )
          child( object.children[ loop ] );
        else
          elements += "<li>" + object.children[ loop ].tagName + "</li>";

      }
      elements += " </ul> ";
    }
    // -->
  </script>
</head>
<body onload = "child( document.all[ 0 ] );
                myDisplay.outerHTML += elements;">
  <p>Welcome to our <strong>Web</strong> page!</p> <p id =
  "myDisplay">
    Elements on this Web page:

  </p>
</body>
</html>

```

**Output:**



**program 23:**

**Write a javascript program to explain about navigator**

**object navigator.html:**

**<html>**

```

<head>
  <title>The navigator Object</title> <script
  type = "text/javascript">
    <!--
      function start()
      {
        if (navigator.appName=="Microsoft Internet Explorer") {

          if ( navigator.appVersion.substring( 1, 0 ) >= "4" )
            document.location = "newIEversion.html";
          else
            document.location = "oldIEversion.html";
        }
        else
          document.location = "NSversion.html";
      }
    // -->
  </script>
</head>
<body onload = "start()">
  <p>Redirecting your browser to the appropriate page,
  please wait...</p>
</body>
</html>

```

newIEversion.html:

```

<html>
  <body>
    <h3>this content is for internet
explorer whose version is 4 or greater than 4</h3> </body>
</html>

```

oldIEversion.html:

```

<html>
  <body>
    <h3>this content is for internet explorer whose version
is less than 4</h3>
  </body>
</html>

```

NSversion.html:

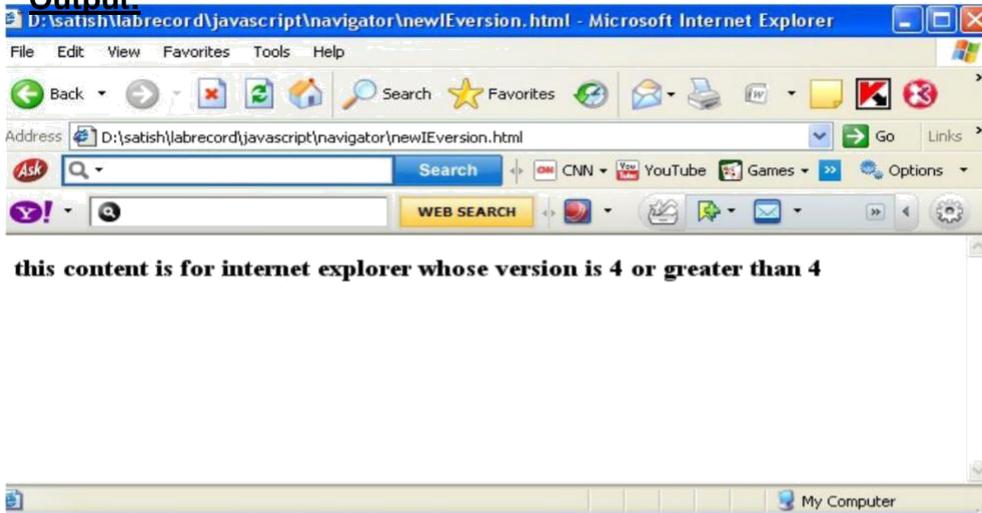
```

<html>
  <body>
    <h3>this content is for netscape navigator</h3>

```

```
</body>
</html>
```

### Output:



### Program 24:

Write a javascript program to explain about flip filter

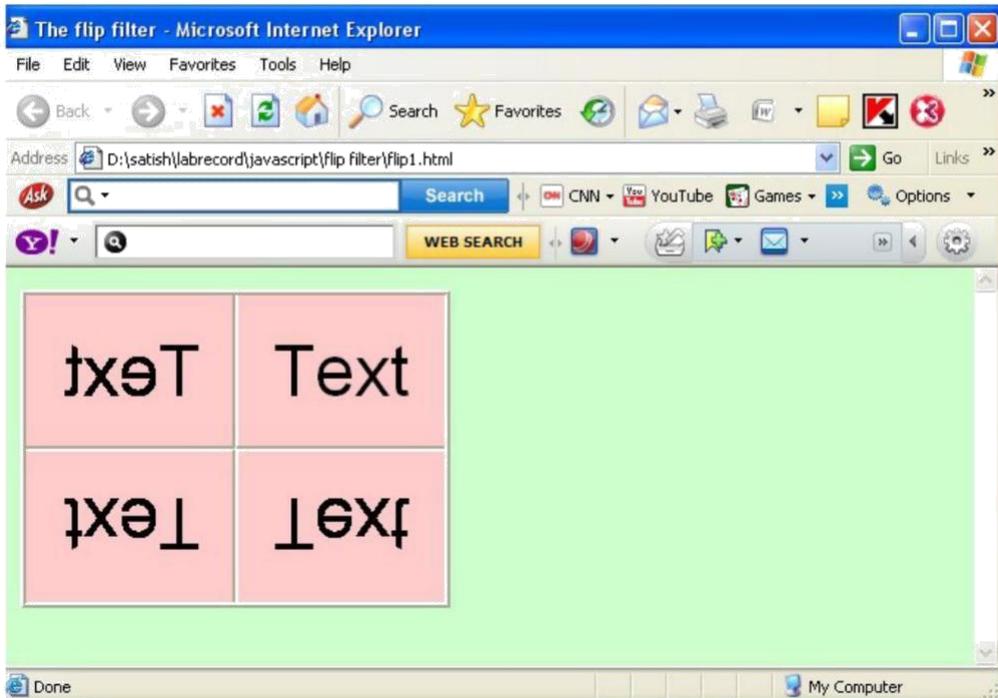
#### Flip1.html:

```
<html>
  <head>
    <title>The flip filter</title>
    <style type = "text/css">
      body { background-color: #CCFFCC }
      table { font-size: 3em;
              font-family: Arial, sans-serif;
              background-color: #FFCCCC;
              border-style: ridge ;
            }
      td { border-style: groove;
           padding: 1ex
        }
    </style>
  </head>
  <table border="1">
    <tr>
      <td>
        <div style="border: 1px solid black; padding: 5px; width: 100px; height: 100px; background-color: #FFCCCC; border-style: ridge; border-radius: 50%; text-align: center; line-height: 100px; font-size: 3em; color: #FF0000; font-weight: bold; opacity: 0.5; transform: rotate(45deg);">
          The Flip Filter
        </div>
      </td>
    </tr>
  </table>
</html>
```

```
</style>
</head>

<body>
  <table>
    <tr>
      <td style = "filter: fliph">Text</td>
      <td>Text</td>
    </tr>
    <tr>
      <td style = "filter: flipv fliph">Text</td>
      <td style = "filter: flipv">Text</td> </tr>
  </table>
</body>
</html>
```

**Output:**



### Program 25:

Develop static pages (using only HTML) of an online Book store. The pages should resemble :[www.amazon.com](http://www.amazon.com). The website should consist the following pages.

## Home page

Registration and user Login User  
profile page  
Books catalog  
Shopping cart  
Payment by credit card  
Order Conformation

Validate the Registration, user login, user profile and payment by credit card pages using JavaScript.

### Main.html:

```
<frameset rows="25%, 75 %">
  <frame src="top.html" name="top">
  <frameset cols="25%,75%">
    <frame src="left.html" name="left">
    <frame src="right.html" name="right">
  </frameset>
</frameset>
```

### Top.html:

```
<html>
  <body bgcolor="pink">
    <br><br>
    <marquee><h1 align="center"><b><u>ONLINE
      BOOK STORAGE</u></b></h1></marquee>
  </body>
</html>
```

### Right.html:

```
<html>
  <body bgcolor="pink">
    <br><br><br><br><br>
    <h2 align="center">
      <b><p> welcome to online book storage. Press login if you are having
        id otherwise press registration.
      </p></b></h2></body>
</html>
```

Left.html:

```
<html>
  <body bgcolor="pink">
    <h3>
    <ul>
      <li><a href="login.html" target="right"><font color="black">
        LOGIN</font></a></li><br><br>
      <li><a href="reg.html" target="right"><font
        color="black"> REGISTRATION</font></a></li><br><br>
      <li><a href="profile.html" target="right"><fontcolor="black">
        USER PROFILE</font></a></li><br><br>
      <li><a href="catalog.html" target="right"><fontcolor="black"> BOOKS
        CATALOG</font></a></li><br><br>
      <li><a href="scart.html" target="right"><font color="black">
        SHOPPINGCART</font></a></li><br><br>
      <li><a href="payment.html" target="right"><fontcolor="black">
        PAYMENT</font></a></li><br><br>
      <li><a href="order.html" target="right"><font color="black">
        ORDER CONFIRMATION</font></a></li><br><br> </ul>

    </body>
  </html>
```

login.html:

```
<html>
  <body bgcolor="pink"><br><br><br>
  <script language="javascript">
    function validate()
    {
      var flag=1;
      if(document.myform.id.value==" "||document.myform.pwd.
        value==" ")
      {
        flag=0;
      }
      if(flag==1)
      {
        alert("VALID INPUT");
      }
    }
  </script>

```







```

<body bgcolor="pink"><br><br><br>
<script language="javascript"> function
validate() {

var flag=1;
if(document.myform.id.value=="||
document.myform.pwd.value=="||
document.myform.amount.value=="||
document.myform.num.value=="")
{
    flag=0;
}
var str=document.myform.amount.value; var x;

for(var i=0;i<str.length;i++)
{
x=str.substr(i,1);
if(!(x<=9))
{
flag=0;
break;
}
}
str=document.myform.num.value;
for(var i=0;i<str.lenght;i++)
{
x=str.substr(i,1);
if(!(x<=9))
{
flag=0;
break;
}
}
if(flag==1)
{
alert("VALID INPUT");
}
else
{

```





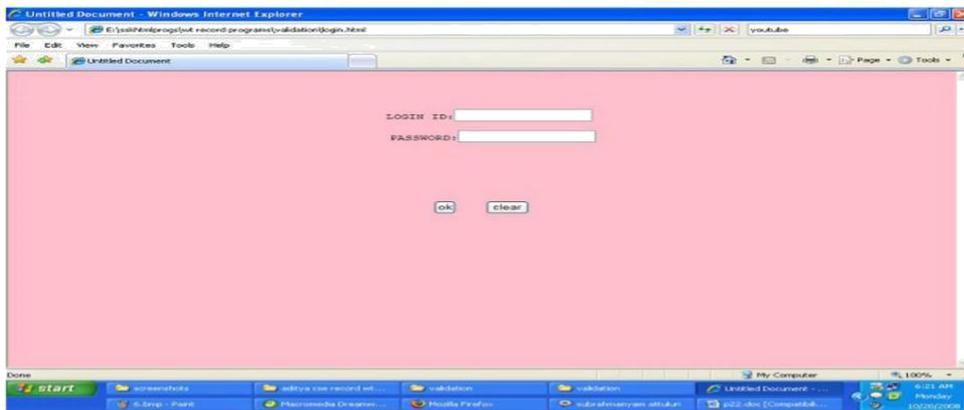
---

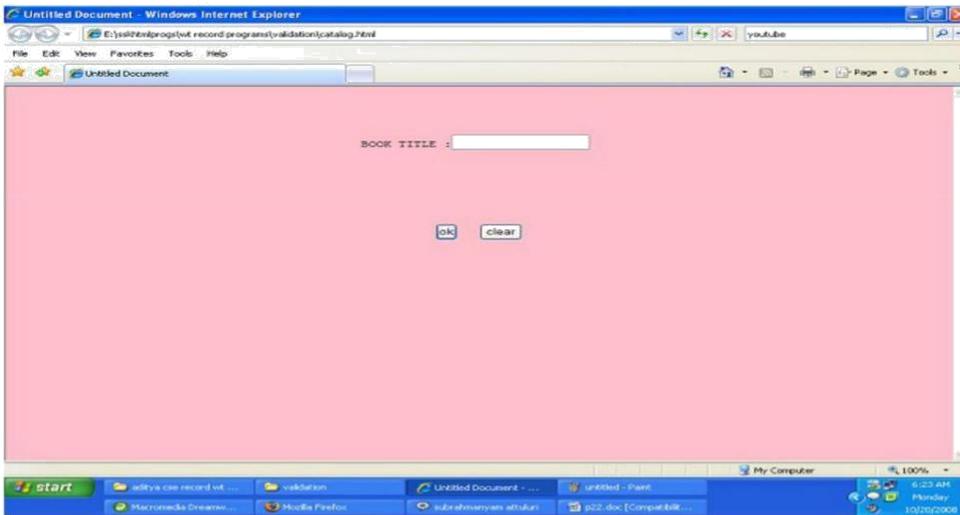
## ONLINE BOOK STORAGE

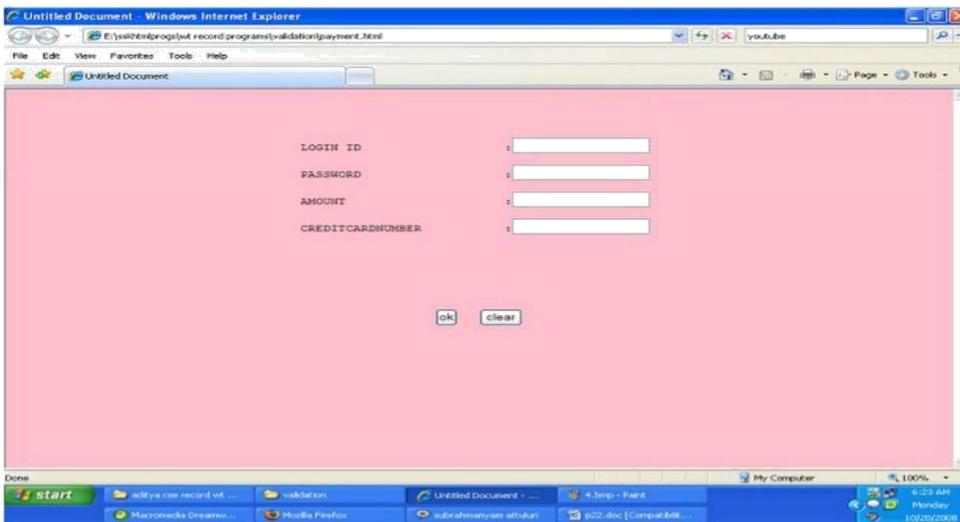
---

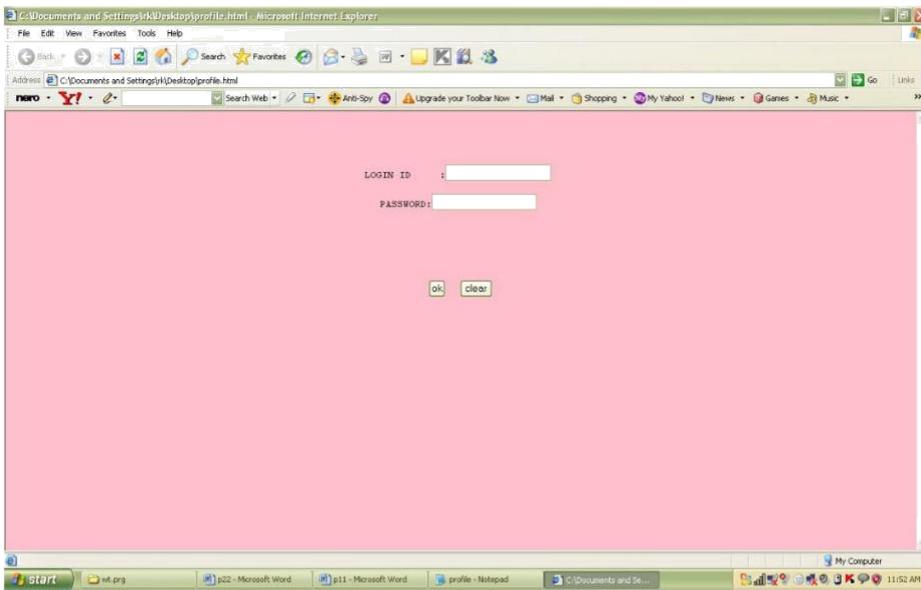
- [LOGIN](#)
- [REGISTRATION](#)
- [USER PROFILE](#)
- [BOOKS CATALOG](#)
- [SHOPPINGCART](#)
- [PAYMENT](#)
- [ORDER CONFIRMATION](#)

welcome to online book storage. Press login if you are having id otherwise press registration.









## **Program 26:**

**Write a Document type definition (DTD) document for representing the structure of employee information**

### **Emps1.dtd:**

```
<?xml version="1.0" encoding="UTF-8"?>  
<!ELEMENT emps (emp+,dept)>
```

```

<!ELEMENT emp (name,salary,desig)>
<!ELEMENT name (firstname,lastname)>
<!ELEMENT firstname (#PCDATA)> <!ELEMENT
lastname (#PCDATA)> <!ELEMENT salary
(#PCDATA)> <!ELEMENT desig (#PCDATA)>
<!ELEMENT dept (deptname,desc)> <!ELEMENT
deptname (#PCDATA)> <!ELEMENT desc
(#PCDATA)> <!ATTLIST emp empno ID
#REQUIRED> <!ATTLIST emp mgrid IDREF
#IMPLIED> <!ATTLIST emp working (yes | no)
'yes'> <!ATTLIST dept deptno ID #REQUIRED>

```

### Employee1.xml:

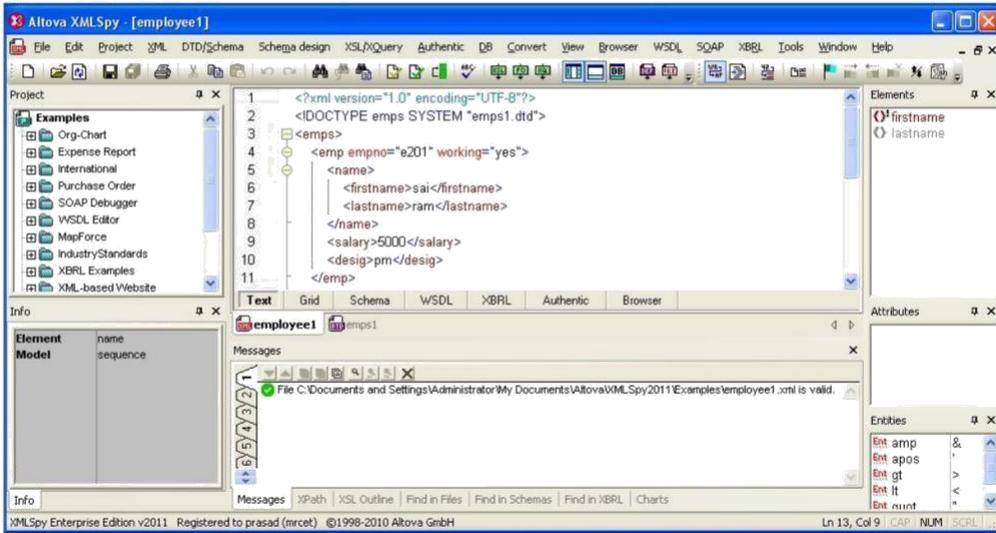
```

<?xml version="1.0" encoding="UTF-
8"?> <!DOCTYPE emps SYSTEM
"emps1.dtd"> <emps>
  <emp empno="e201" working="yes">
    <name>
      <firstname>sai</firstname>
      <lastname>ram</lastname>
    </name>
    <salary>5000</salary>
    <desig>pm</desig>
  </emp>
  <emp empno="e202" mgrid="e201"
  working="yes"> <name>
    <firstname>satish</firstname>
    <lastname>kumar</lastname>

    </name>
    <salary>2000</salary>
    <desig>programmer</desig>
  </emp>
  <dept deptno="d111">
    <deptname>developing team</deptname>
    <desc>develops programs</desc>
  </dept>
</emps>

```

### Output:



## Program 27:

Write a xml schema document (xsd) document for representing the structure of employee information

emps2.xsd:

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs=http://www.w3.org/2001/XMLSchema
elementFormDefault="qualified"
attributeFormDefault="unqualified">
<xs:element name="emps"
type="empstype"> <xs:annotation>
<xs:documentation>
this element stores about various
employees </xs:documentation>
</xs:annotation>
</xs:element>
```

```

<xs:simpleType name="salarytype">
  <xs:restriction base="xs:double">
    <xs:minInclusive value="5000"></xs:minInclusive>
    <xs:maxInclusive value="35000"></xs:maxInclusive>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="desigtype">
  <xs:restriction base="xs:string">
    <xs:enumeration value="projectmanager"></xs:enumeration>
    <xs:enumeration value="teamleader"></xs:enumeration>
    <xs:enumeration value="developer"></xs:enumeration>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="deptnametype">
  <xs:restriction base="xs:string">
    <xs:enumeration value="testing"></xs:enumeration>
    <xs:enumeration value="design"></xs:enumeration>
    <xs:enumeration value="programming"></xs:enumeration>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="workingtype">
  <xs:restriction base="xs:string"> <xs:enumeration
    value="yes"></xs:enumeration> <xs:enumeration
    value="no"></xs:enumeration>
  </xs:restriction>
</xs:simpleType>
<xs:attributeGroup name="empattributes">
  <xs:attribute name="empno" type="xs:ID" use="required">
</xs:attribute>
  <xs:attribute name="mgrid" type="xs:IDREF" use="optional">
</xs:attribute>
  <xs:attribute name="working" default="yes" use="optional"
type="workingtype">
</xs:attribute>
</xs:attributeGroup>
<xs:complexType name="empnametype">
  <xs:sequence>
    <xs:element name="firstname"
type="xs:string"> </xs:element>
    <xs:element name="lastname"
type="xs:string"> </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="emptytype">
  <xs:sequence>
    <xs:element name="name" type="empnametype">

```

```

        </xs:element>
        <xs:element name="salary" type="salarytype">
        </xs:element>
        <xs:element name="desig"
        type="desigtype"> </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="empattributes"></xs:attributeGroup>
</xs:complexType>
<xs:complexType name="depttype">
    <xs:sequence>
        <xs:element name="name" type="deptnametype">
        </xs:element>
        <xs:element name="desc"
        type="xs:string"></xs:element> </xs:sequence>
        <xs:attribute name="deptno" use="required"></xs:attribute>
    </xs:complexType>
<xs:complexType name="empstype">
    <xs:sequence>
        <xs:element name="emp" type="emptytype"
        minOccurs="1" maxOccurs="20"></xs:element>
        <xs:element name="dept" type="depttype"
        minOccurs="1"></xs:element>
    </xs:sequence>
</xs:complexType>
</xs:schema>

```

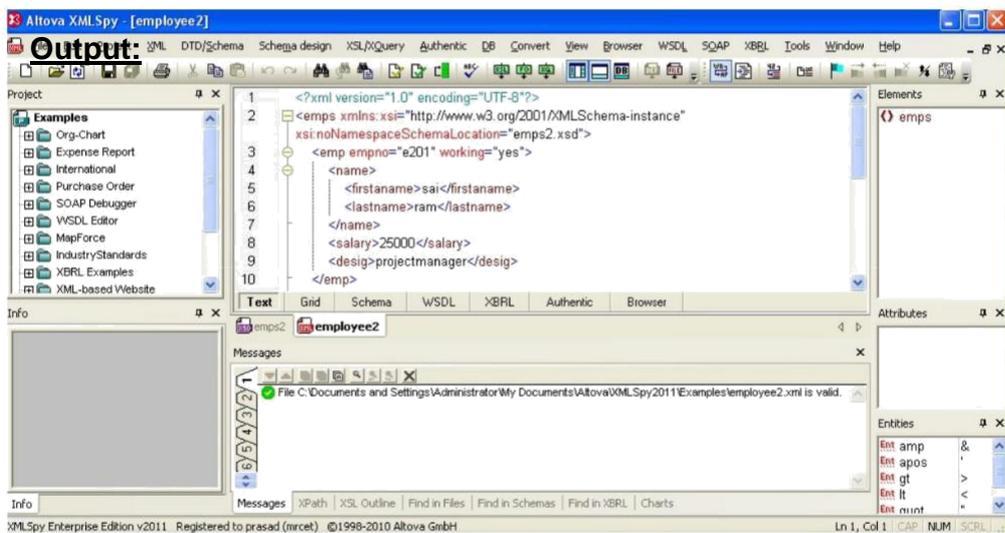
### Employee2.xml:

```

<?xml version="1.0"?>
<emps xmlns="http://www.w3schools.com"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="emps2.xsd" >
    <emp empno="e201" working="yes">
        <name>
            <firstname> raj </firstname>
            <lastname> kumar </lastname>
        </name>
        <salary>10000</salary>
        <desig>projectmanager</desig>
    </emp>
    <emp empno="e102" mgrid="e201"
    working="yes"> <name>
        <firstname> durga </firstname>
        <lastname> rao </lastname>
    </name>

```

```
<salary>16500</salary>
<desig> teamlead </desig>
</emp>
<dept deptno="d101">
  <name>testing</name>
  <desc> tests the projects </desc> </dept>
</emps>
```



## Program 28:

Write an xml stylesheet language document (xsl) for converting Employee markup language document to html document

### Empxsl.xsl:

```
<?xml version="1.0" encoding="ISO-8859-1"?> <xsl:stylesheet
version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
  <html>
  <body>
  <h2>Employee details</h2>
  <table border="1">
    <tr bgcolor="#9acd32">
      <th>empno</th>
      <th>firstname</th>
      <th>lastname</th>
      <th>salary</th>
      <th>designation</th>
    </tr>
    <xsl:for-each select="emps/emp">
      <tr>
        <td><xsl:value-of select="@empno"/></td>
        <td><xsl:value-of select="./name/first-name"/></td>
        <td><xsl:value-of select="./name/last-
name"/></td> <td><xsl:value-of select="sal"/></td>
        <td><xsl:value-of select="desig"/></td> </tr>
      </xsl:for-each>
    </table>
  </body>
  </html>
</xsl:template>
</xsl:stylesheet>
```

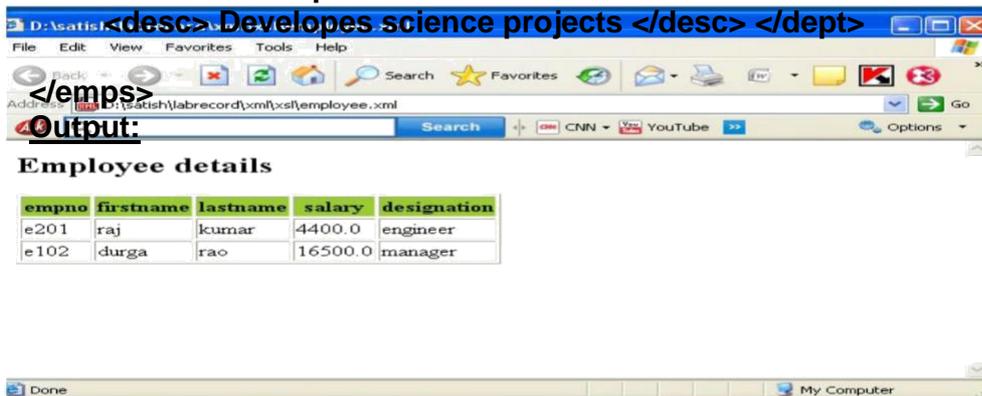
### Employee.xml:

```
<?xml version="1.0"?>
<?xml-stylesheet href="empxsl.xsl" type="text/xsl" ?> 74
```

```

<emps>
  <emp empno="e201" working="yes">
    <name>
      <first-name> raj </first-name>
      <last-name> kumar </last-name>
    </name>
    <sal>4400.0</sal>
    <desig> engineer </desig>
  </emp>
  <emp empno="e102" managerid="e201" working="yes">
    <name>
      <first-name> durga </first-name>
      <last-name> rao </last-name>
    </name>
    <sal>16500.0</sal>
    <desig> manager </desig>
  </emp>
  <dept deptno="d101"> <dept-name>
    SCIENCE </dept-name>
    <desc> Developes science projects </desc> </dept>
  </emps>

```



## Program 29:

Write an web application to explain the servlet lifecycle

/servletlifecycle/hello.html:

```
<html>
```

```

    <body>
        <center><u><h3>Program to demonstrate lifecycle
of servlet</h3></u></center>
        <form method="get" action="sayhello">
            <input type="submit" value="HELLO"/>
        </form>
    </body>
</html>

```

/servletlifecycle/WEB-INF/web.xml:

```

<web-app>
    <servlet>
        <servlet-name>HS</servlet-name> <servlet-
class>com.nit.hello.HelloServlet </servlet-class>

    </servlet>
    <servlet-mapping>
        <servlet-name>HS</servlet-name> <url-
pattern>/sayhello</url-pattern>
    </servlet-mapping>
</web-app>

```

/servletlifecycle/WEB-INF/classes/HelloServlet.java:

```

package com.nit.hello;
import javax.servlet.*;
import java.io.*;
public class HelloServlet implements Servlet {

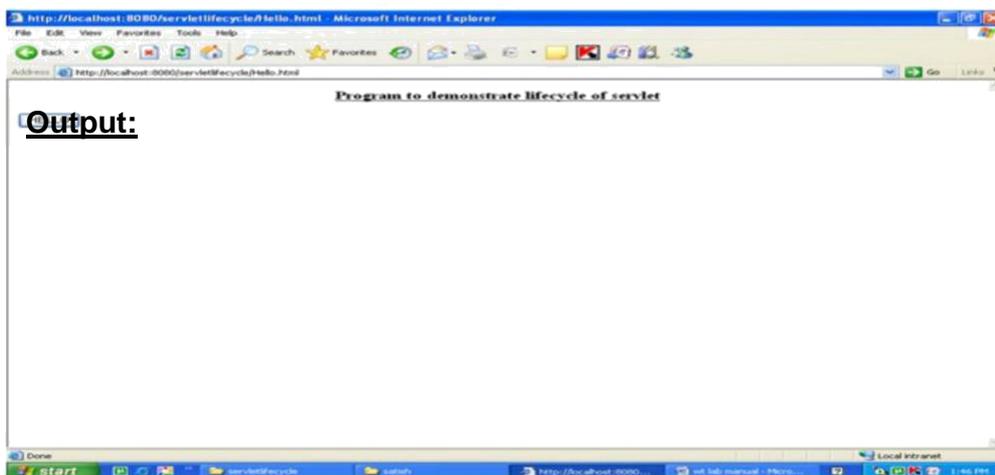
    ServletConfig sc;
    public void init(ServletConfig sc) throws ServletException
    {
        System.out.println("in init method "); this.sc=sc;
    }
    public void service(ServletRequest req,ServletResponse res) throws
        ServletException,IOException
    {
        System.out.println("in service method");
        PrintWriter out=res.getWriter();
        out.println("<center><h3><u>");
        out.println("Program to demonstrate lifecycle of
servlet </u></h3></center>");
        out.println("<b> Hello from first servlet </b> ");
    }
}

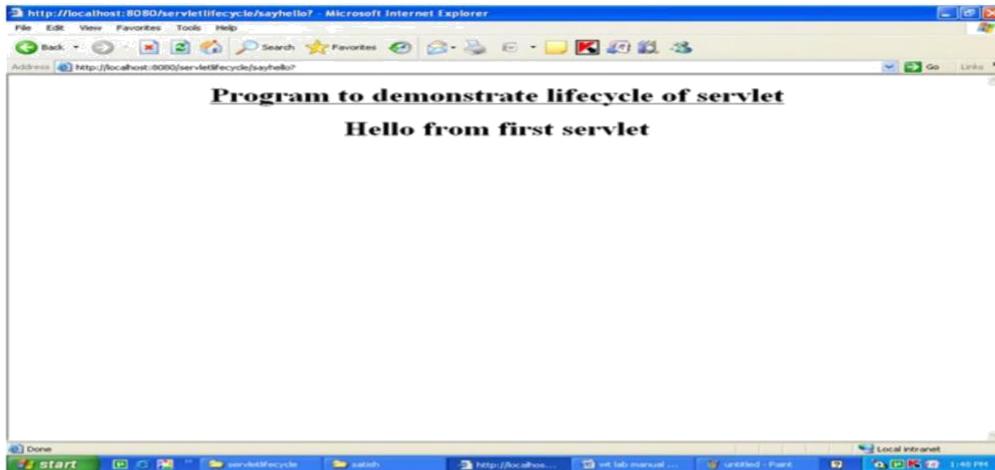
```

```
public void destroy()
{
    System.out.println("in destroy method");
}
public ServletConfig getServletConfig()
{
    return sc;
}
public String getServletInfo()
{
    return "helloservlet";
}
}
```

### Compilation:

Javac -d . HelloServlet.java





### Program 30:

Write an web application to explain about servlet initial parameters and context or application level parameters

/initialparameters/first.html:

```
<html>
  <body>
    <center>
      <h3>Program explaining initial parameters and
      context level parameters </h3><br/><br/>
      <a href="/wish">click here to view initial and context
      level parameters </a>
    </center>
  </body>
</html>
```

/initialparameters/WEB-INF/web.xml:

```
<web-app >
  <context-param>
    <param-name>emailid</param-name> <param-
    value>mrec@gmail.com</param-value>
  </context-param>
```

```

<context-param>
  <param-name>drivername</param-name>
  <param-value>sun.jdbc.odbc.JdbcOdbcDriver</param-value>
</context-param>
<servlet>
  <servlet-name>firstexample</servlet-name>
  <servlet-class>MyServlet</servlet-class> <init-
param>
    <param-name>user1</param-name>
    <param-value>cseA</param-value>
  </init-param>
  <init-param>
    <param-name>user2</param-name>
    <param-value>cseB</param-value>
  </init-param>
</servlet>
<servlet-mapping>
  <servlet-name>firstexample</servlet-name>
  <url-pattern>/wish</url-pattern>
</servlet-mapping>
</web-app>

```

/initialparameters/WEB-INF/MyServlet.java:

```

import javax.servlet.*;
import java.io.*;
import java.util.*;
public class MyServlet extends GenericServlet {

  public void init()throws ServletException {

    System.out.println("in init() method");
  }
  public void service(ServletRequest req,ServletResponse res)
    throws ServletException,IOException
  {
    System.out.println("in
Service(servletrequest,servletresponse) method");
    res.setContentType("text/html"); PrintWriter
out=res.getWriter(); ServletConfig
scg=getServletConfig(); ServletContext
sct=scg.getServletContext();
out.println("<html><body>");
out.println("<h3>The Context level parameters configured for
application are:</h3><br/>");

```

```

out.println("<table width=\"200\"
border=\"3\"><tr><th>ParamName</th><th>ParamValue</th></tr> ");

Enumeration en=sct.getInitParameterNames();
while(en.hasMoreElements()) {

    String name=(String)en.nextElement(); String
    value=sct.getInitParameter(name);

    out.println("<tr><td align=\"center\">" + name + "</td><td
    align=\"center\">" + value + "</td></tr>");
}
out.println("</table>");
out.println("<h3>The initial parameters configured for this servlet
are:</h3><br/>"); out.println("<table width=\"200\"
border=\"3\"><tr><th>param name</th><th>param value</th></tr>");

Enumeration en1=scg.getInitParameterNames();
while(en1.hasMoreElements()) {

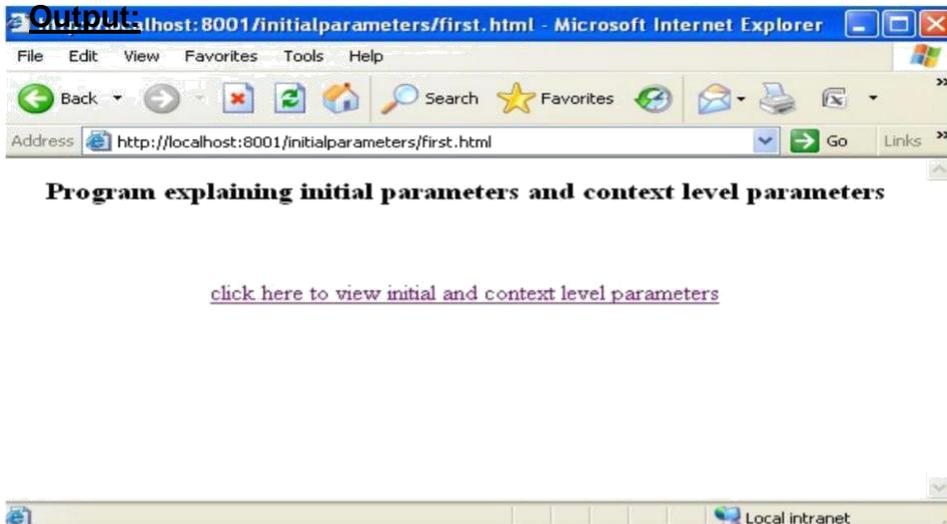
    String name=(String)en1.nextElement(); String
    value=scg.getInitParameter(name); out.println("<tr><td
    align=\"center\">" + name + "</td><td align=\"center\">" + value
    + "</td></tr>"); }

    out.println("</table>");
    out.println("</body></html>");
}
}

```

**Compilation:**

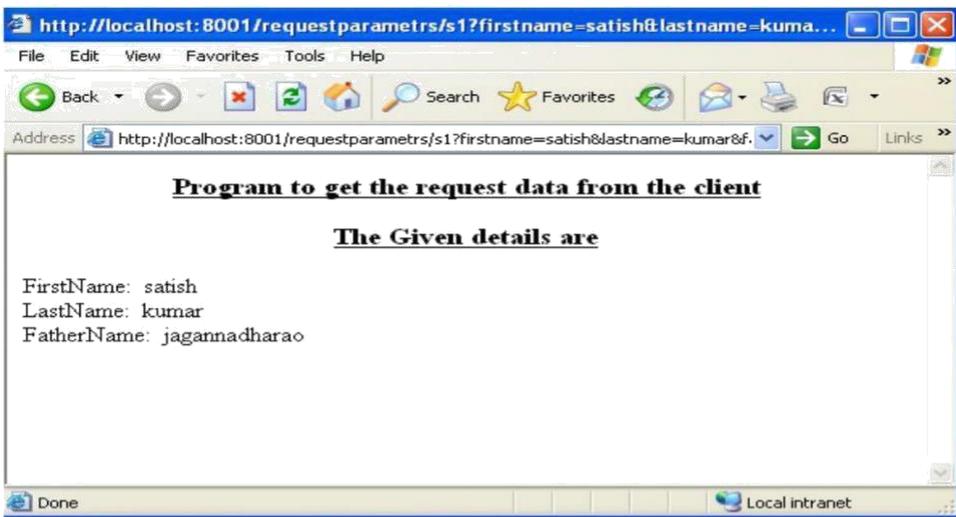
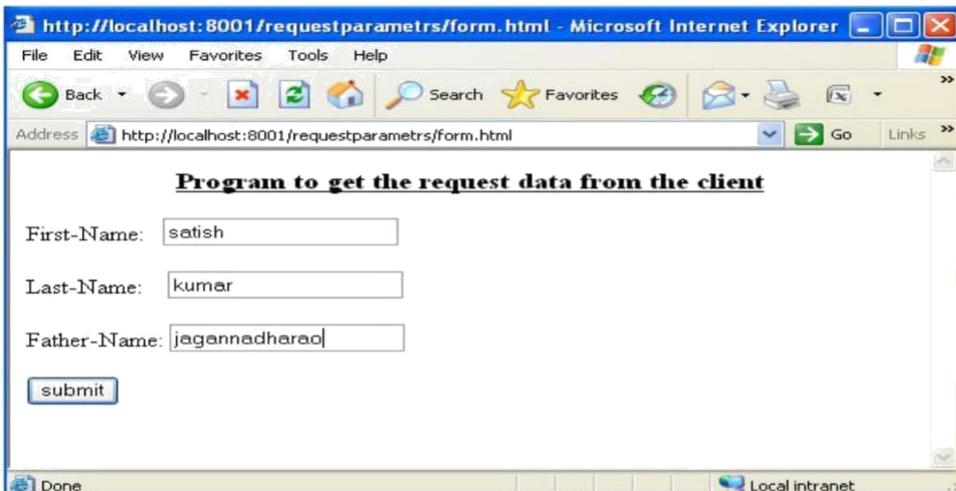
Javac MyServlet.java



## Program 31:







### Program 32:

Write an web application to create and retrieve cookies

</cookiesex/firstform.html>:

<html>



```

</servlet>
<servlet>
    <servlet-name>Servlet2</servlet-name>
    <servlet-class>SecondServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>Servlet1</servlet-name> <url-
    pattern>/ser1</url-pattern>
</servlet-mapping>

<servlet-mapping>
    <servlet-name>Servlet2</servlet-name>
    <url-pattern>/ser2</url-pattern>
</servlet-mapping>
</web-app>

```

/cookiesex/WEB-INF/classes/FirstServlet.java:

```

import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class FirstServlet extends HttpServlet {

    public void doGet(HttpServletRequest req,HttpServletResponse
                      res)throws ServletException,IOException
    {
        res.setContentType("text/html");
        PrintWriter pw=res.getWriter();
        String cookieonename=req.getParameter("cookieonename");
        String cookietwoname=req.getParameter("cookietwoname");
        String cookieonevalue=req.getParameter("cookieonevalue");
        String cookietwovalue=req.getParameter("cookietwovalue");
        Cookie c1=new Cookie(cookieonename,cookieonevalue);
        Cookie c2=new Cookie(cookietwoname,cookietwovalue);
        res.addCookie(c1);
        res.addCookie(c2);
        RequestDispatcher rd=
            req.getRequestDispatcher("/secondform.html");
        rd.forward(req,res);
    }
}

```

/cookiesex/WEB-INF/classes/SecondServlet.java:

```

import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

```

```

public class SecondServlet extends HttpServlet {

    public void doGet(HttpServletRequest req,HttpServletResponse res)throws
        ServletException,IOException
    {
        res.setContentType("text/html");
        PrintWriter pw=res.getWriter();
        pw.println("<html><body>");
        pw.println("<center><u><h3>Program to demonstrate Use of
            Cookies</h3></u></center>");
        pw.println("<center><u><h3>The Added Cookies
            are</h3></u></center>");

        Cookie c[]=req.getCookies();
        for(int i=0;i<c.length;i++)
        {
            pw.println("CookieName:&nbsp;&nbsp; "+c[i].getName()+
                "&nbsp;&nbsp; ");
            pw.println("cookievalue:&nbsp;&nbsp;&nbsp;"+c[i].getValue());
            pw.println("<br/><br/>");
        }
        pw.println("<br/><br/><br/><br/>");
        pw.println("<center><h3> <u><a
            href=\\\"./firstform.html\\\">Click here to add more
            cookies</a> </u></h3></center>");

        pw.println("</html></body>");
    }
}

```

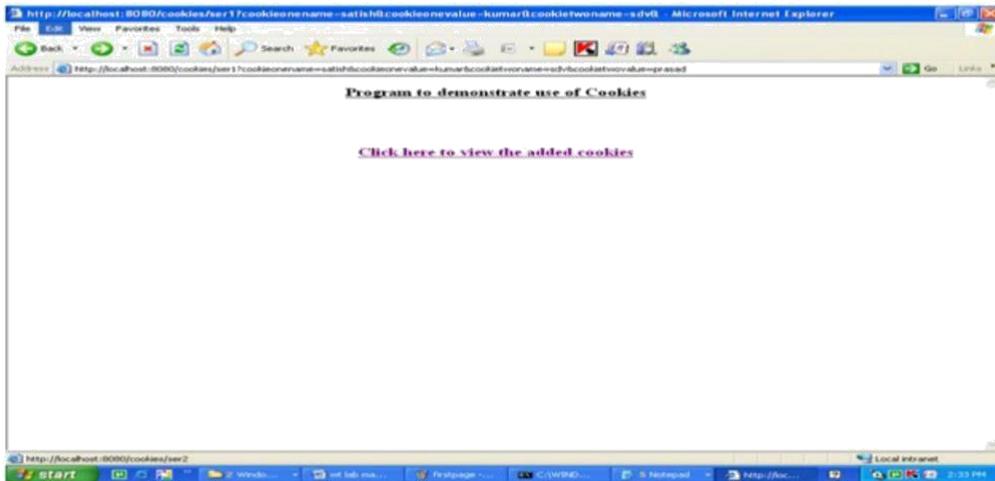
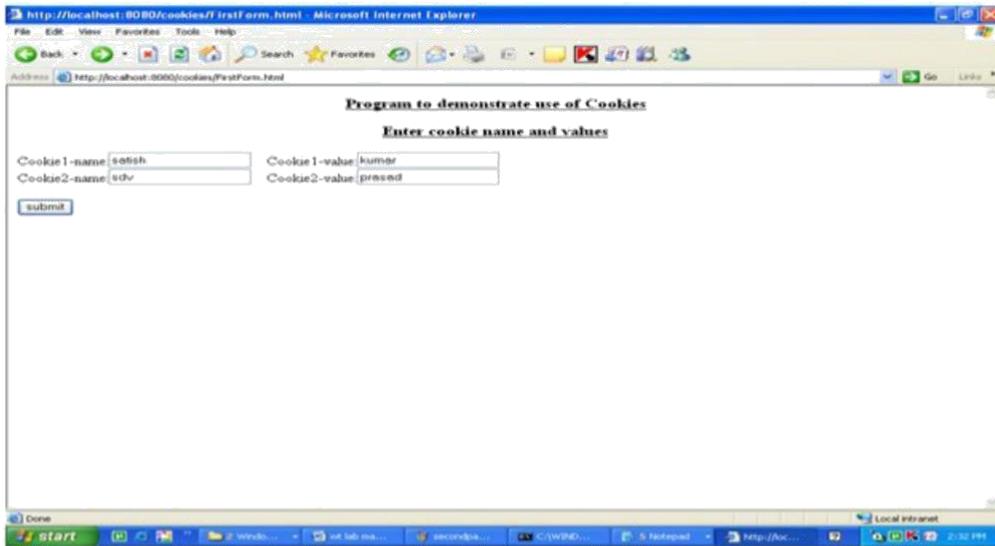
**Compilation:**

```

javac FirstServlet.java
javac SecondServlet.java

```

**output:**







```

public void doGet(HttpServletRequest req, HttpServletResponse res) throws
                    ServletException, IOException
{
    res.setContentType("text/html");
    PrintWriter pw=res.getWriter();
    HttpSession hs=req.getSession();
    String firstname=req.getParameter("firstname");
    String lastname=req.getParameter("lastname"); String
    fathurname=req.getParameter("fathurname");
    hs.setAttribute("firstname",firstname);
    hs.setAttribute("lastname",lastname);

    hs.setAttribute("fathurname",fathurname);
    RequestDispatcher rd=
        req.getRequestDispatcher("/secondform.html");
    rd.forward(req,res);
}
}

```

/session/WEB-INF/classes/SecondServlet.java:

```

import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class SecondServlet extends HttpServlet {

    public void doGet(HttpServletRequest req, HttpServletResponse res) throws
                    ServletException, IOException
    {
        res.setContentType("text/html");
        PrintWriter pw=res.getWriter();
        HttpSession hs=req.getSession();
        String dob=req.getParameter("dob");
        String address=req.getParameter("address");
        String firstname=(String)hs.getAttribute("firstname");
        String lastname=(String)hs.getAttribute("lastname");
        String fathurname=(String)hs.getAttribute("fathurname");
        pw.println("<html><body>");
        pw.println("<center><u><h3>Program to demonstrate Session
                    Tracking</h3></u></center>");
        pw.println("<center><h3>The Details Given by you
                    are</h3></center>");
        pw.println("First Name is:<h3>"+firstname+" </h3><br/>");
        pw.println("Last Name is:<h3>"+lastname+" </h3><br/>");
        pw.println("Father name is:<h3>"+fathurname+" </h3><br/>");
        pw.println("Date of Birth:<h3>"+dob+" </h3><br/>"); pw.println("address
        is:<h3>"+address+" </h3><br/>");
    }
}

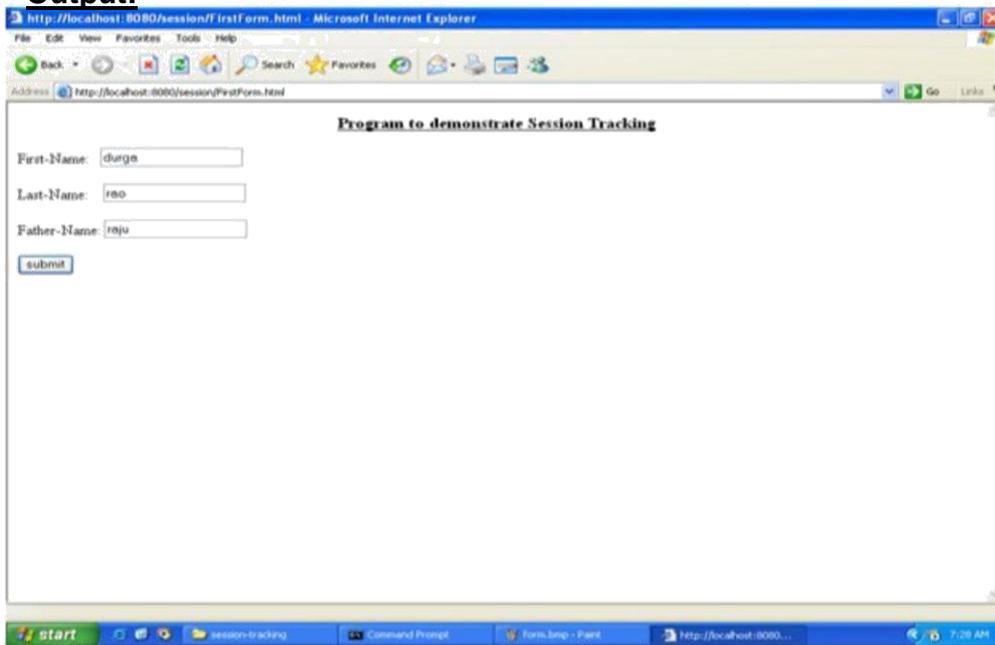
```

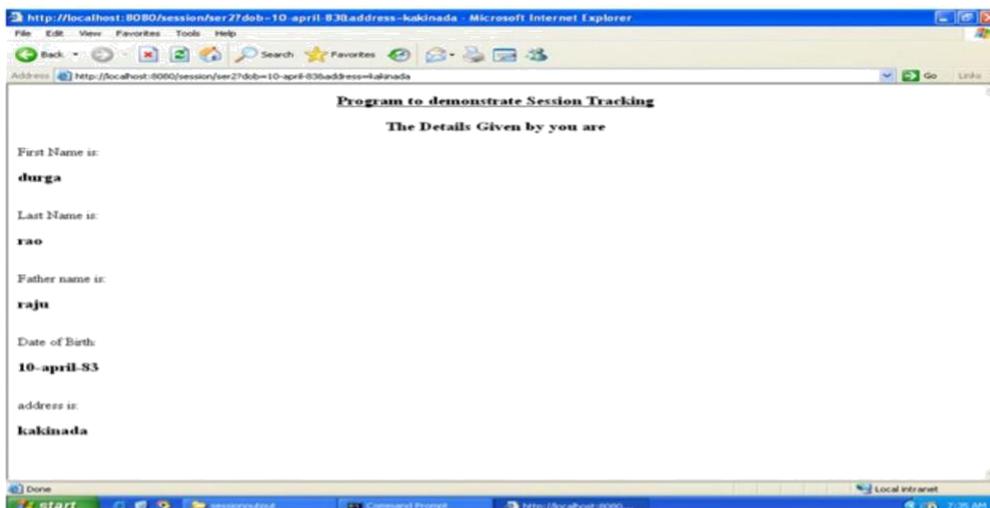
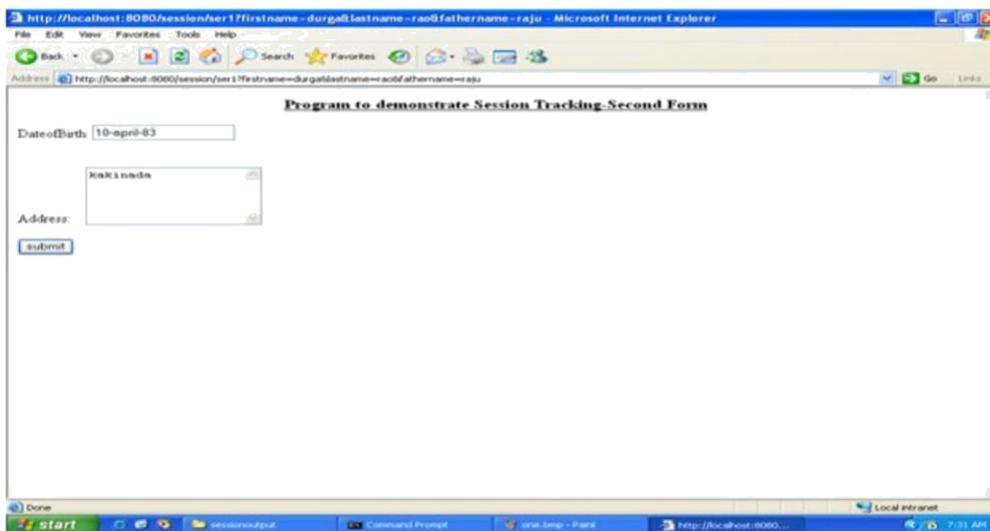
```
}  
}
```

### Compilation:

Javac FirstServlet.java  
Javac SecondServlet.java

### Output:





### Program 34:

Install TOMCAT web server. Convert the static webpages of assignments 2 into dynamic webpages using servlets and cookies. Hint: Users information (user id, password, credit card number)

would be stored in web.xml. Each user should have a separate Shopping Cart.

### PROCEDURE:

First install the tomcat into the system.

Then make a subdirectory(eg., tr) in the \tomcat\webapps.

Under tr create WEB-INF directory and also place the html files in this tr directory only.

Next under WEB-INF create two subdirectories lib,classes and web.xml Next place all the class files under the classes and jar files(servlet-api.jar,classes12.jar etc...) under lib subdirectories.

After this start tomcat by giving the following command at the install\_dir>tomcat>bin

Catalina.bat run

At the I.E(web browser) give the url as http://localhost:8080/tr/htmlfile or servlet url pattern Portno 8080 is assigned for the tomcat.

### Web.xml:

```
<?xml version="1.0" encoding="iso-8859-1" ?> <!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN" "http://java.sun.com/dtd/web-app_2_3.dtd"> <web-app>
```

```
    <display-name>Servlet 2.4 Examples</display-name>
```

```
    <description>
```

```
    Servlet 2.4 Examples.
```

```
    </description>
```

```
    <servlet>
```

```
        <servlet-name>reg</servlet-name>
```

```
        <servlet-class>reg</servlet-class>
```

```
    </servlet>
```

```
    <servlet>
```

```
        <servlet-name>login</servlet-name>
```

```
        <servlet-class>login</servlet-class>
```

```
    </servlet>
```

```
    <servlet>
```

```
        <servlet-name>profile</servlet-name>
```

```
        <servlet-class>profile</servlet-class>
```

```
    </servlet>
```

```

<servlet>
    <servlet-name>catalog</servlet-name>
    <servlet-class>catalog</servlet-class>
<servlet-mapping>
    <servlet-name>order</servlet-name>
    <url-pattern>order</url-pattern>
</servlet-mapping>
<servlet>
    <servlet-name>order</servlet-name>
    <servlet-class>order</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>catalog</servlet-name> <url-
pattern>catalog</url-pattern>
</servlet-mapping>
<servlet-mapping>
    <servlet-name>profile</servlet-name> <url-
pattern>profile</url-pattern>
</servlet-mapping>
<servlet-mapping>
    <servlet-name>login</servlet-name> <url-
pattern>login</url-pattern>
</servlet-mapping>
<servlet-mapping>
    <servlet-name>reg</servlet-name>
    <url-pattern>reg</url-pattern>
</servlet-mapping>
</web-app>

```

**Main.html:**

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"> <html
xmlns="http://www.w3.org/1999/xhtml"> <body bgcolor="pink">

```

```

<br /><br /><br /><br /><br />

```

```

<h1 align="center"><U>ONLINE BOOK STORAGE</U></h1><br /><br /><br />

```

```

<h2 align="center"><pre> <b>Welcome
to online book storage. Press LOGIN if
you are having id

```







```

import javax.servlet.http.*;
public class login extends HttpServlet
{

public void service(HttpServletRequest req,HttpServletResponse
                    resp)throws ServletException,IOException
{
    PrintWriter pw=resp.getWriter();
    pw.println("<html><body bgcolor=\"pink\"");
    String id=req.getParameter("id"); String
    pwd=req.getParameter("pwd"); try
    {
        Driver d=new oracle.jdbc.driver.OracleDriver();
        DriverManager.registerDriver(d);
        Connection con=DriverManager.getConnection("
        jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger"
        );

        Statement stmt=con.createStatement();
        String sqlstmt="select id,password from login";
        ResultSet rs=stmt.executeQuery(sqlstmt); int flag=0;

        while(rs.next())
        {
            if(id.equal(rs.getString(1))&&pwd.equals(
                rs.getString(2)))
            {
                flag=1;
            }
        }
        if(flag==0)
        {
            pw.println("SORRY INVALID ID TRY AGAIN ID<br><br>");
            pw.println("<a href=\"/tr/login.html\">press LOGIN
                to RETRY</a>");
        }
    }
    else
    {
        pw.println("VALID LOGIN ID<br><br>");

        pw.println("<h3><ul>");
    }
}
}

```

```

        pw.println("<li><a href=\"profile.html\"><fontcolor=\"b
        lack\">USER PROFILE</font> </a></li><br><br>");
        pw.println("<li><a href=\"catalog.html\"><fontcolor=\"b
        lack\">BOOKS CATALOG</font></a></li><br><br>");
        pw.println("<li><a href=\"order.html\"><fontcolor=\"bla ck\">ORDER
        CONFIRMATION</font>
        </a></li><br><br>");
    }
    pw.println("</body></html>");
}
catch(Exception e)
{
    resp.sendError(500,e.toString());
}
}
}
}

```

#### Req.java:

```

import java.sql.*;
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class login extends HttpServlet {

    public void service(HttpServletRequest req,HttpServletResponse
        resp)throws ServletException,IOException
    {
        PrintWriter pw=resp.getWriter();
        pw.println("<html><body bgcolor=\"pink\">");
        String name=req.getParameter("name"); String
        addr=req.getParameter("addr"); String
        phno=req.getParameter("phno");

        String id=req.getParameter("id"); String
        pwd=req.getParameter("pwd"); int
        no=Integer.parseInt(phno); try

        {

            Driver d=new oracle.jdbc.driver.OracleDriver();

```

```

DriverManager.registerDriver(d);
Connection con=DriverManager.getConnection("
jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger"
);

Statement stmt=con.createStatement();
String sqlstmt="select id,password from login";
ResultSet rs=stmt.executeQuery(sqlstmt); int flag=0;

while(rs.next())
{
    if(id.equal(rs.getString(1))&&pwd.equals(
        rs.getString(2)))
    {
        flag=1;
    }
}
if(flag==1)
{
    pw.println("SORRY INVALID ID ALREADY EXISTS TRY
                AGAIN WITH NEW ID<br><br>");
    pw.println("<a href='\"/tr/reg.html\"'>press REGISTER to
                RETRY</a>");
}
else
{
    Statement stmt1=con.createStatement();
    stmt1.executeUpdate("insert into login
        values(\"+names\", "+addr+", "+no+", "+id+", "+pwd +")");

    pw.println("YOUR DETAILS ARE ENTERED<br><br>");
    pw.println("<a href='\"/tr/login.html\"'>press
                LOGIN to login</a>");
}
pw.println("</body></html>");
}
}
}
catch(Exception e)
{
}
    resp.sendError(500,e.toString());
}
}
}

```

```
}
```

**Catlog.java:**

```
import java.sql.*;
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class login extends HttpServlet {

    public void service(HttpServletRequest req,
                        HttpServletResponse resp)
                        throws ServletException,IOException
    {
        PrintWriter pw=resp.getWriter();
        pw.println("<html><body bgcolor=\"pink\"");
        String title=req.getParameter("title"); try

        {
            Driver d=new oracle.jdbc.driver.OracleDriver();
            DriverManager.registerDriver(d);

            Connection con=DriverManager.getConnection("
                jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger");
            Statement stmt=con.createStatement();
            String sqlstmt="select id,password from login";
            ResultSet rs=stmt.executeQuery(sqlstmt); int flag=0;

            while(rs.next())
            {
                pw.println(",div align=\"center\">");
                pw.println("TITLE:"+rs.getString(1)+"<br>");
                pw.println("AUTHOR :"+rs.getString(2)+"<br>");
                pw.println("VERSION :"+rs.getString(3)+"<br>");
                pw.println("PUBLISHER      :"+rs.getString(4)+"<br>");
                pw.println("COST          :"+rs.getString(5)+"<br>");
                pw.println("</div>");
                flag=1;
            }
        }
    }
}
```

```

    }
    if(flag==0)
    {
        pw.println("SORRY INVALID TITLE TRY AGAIN <br><br>");
        pw.println("<a href='/tr/catalog.html'>press HERE to
                    RETRY</a>");
    }
    pw.println("</body></html>");
}
catch(Exception e)
{
    resp.sendError(500,e.toString());
}
}
}
}

```

**Profile.java:**

```

import java.sql.*;
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class login extends HttpServlet {

        public void service(HttpServletRequest
        req, HttpServletResponse resp)throws
        ServletException,IOException
    {
        PrintWriter pw=resp.getWriter();
        pw.println("<html><body bgcolor='pink'>");
        String id=req.getParameter("id"); try

        {
            Driver d=new oracle.jdbc.driver.OracleDriver();
            DriverManager.registerDriver(d);

```

```

Connection con=DriverManager.getConnection("
    jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger");
Statement stmt=con.createStatement();
String sqlstmt="select * from login where id="+id+""; ResultSet
rs=stmt.executeQuery(sqlstmt); int flag=0;

pw.println("<br><br><br>");
while(rs.next())
{
    pw.println("<div align=\"center\">");
    pw.println("NAME :"+rs.getString(1)+"<br>");
    pw.println("ADDRESS :"+rs.getString(2)+"<br>");
    pw.println("PHONE NO      :"+rs.getString(3)+"<br>");
    pw.println("</div>");
    flag=1;

}
if(flag==0)
{
    pw.println("SORRY INVALID ID TRY AGAIN ID<br><br>");
    pw.println("<a href=\"/tr/profile.html\">press HERE
                                                    to RETRY</a>");
}
pw.println("</body></html>");
}
catch(Exception e)
{
    resp.sendError(500,e.toString());
}
}
}

```

**Order.java:**

```

import java.sql.*;
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class login extends HttpServlet {

```

```

        public void service(HttpServletRequest req, HttpServletResponse
                               resp) throws ServletException, IOException
    {
        PrintWriter pw=resp.getWriter();
        pw.println("<html><body bgcolor=\"pink\"");
        String id=req.getParameter("id"); String
        pwd=req.getParameter("pwd"); String
        title=req.getParameter("title"); String
        count1=req.getParameter("no"); String
        date=req.getParameter("date");

        String cno=req.getParameter("cno");
        int count=Integer.parseInt(count1);
        try
        {
            Driver d=new oracle.jdbc.driver.OracleDriver();
            DriverManager.registerDriver(d);
            Connection con=DriverManager.getConnection("
            jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger"
            );

            Statement stmt=con.createStatement();
            String sqlstmt="select id,password from login"; ResultSet
            rs=stmt.executeQuery(sqlstmt); int flag=0,amount,x;

            while(rs.next())
            {
                if(id.equals(rs.getString(1))&&pwd.equals(
                rs.getString(2)))
                {
                    flag=1;
                }
            }
            if(flag==0)
            {
                pw.println("SORRY INVALID ID TRY AGAIN D<br><br>");
                pw.println("<a href=\""/tr/order.html\">press HERE
                to RETRY</a>");
            }
            else
            {
                Statement stmt2=con.createStatement();

```

```

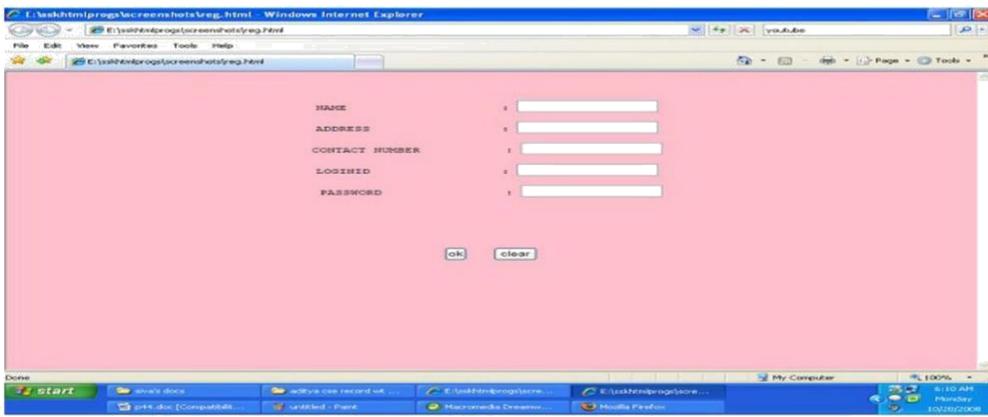
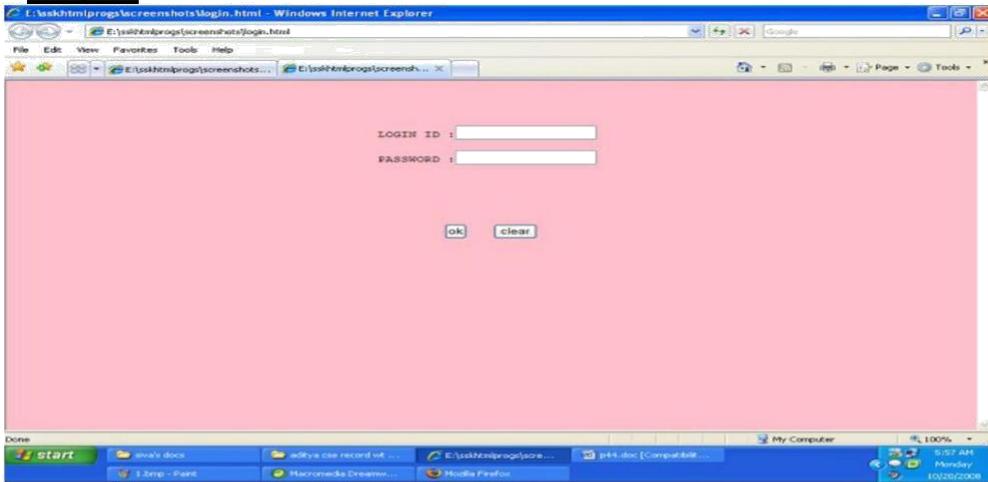
String s="select cost from book where title="+title+"";

ResultSet rs1=stmt2.executeQuery(s);
int flag1=0;
while(rs1.next())

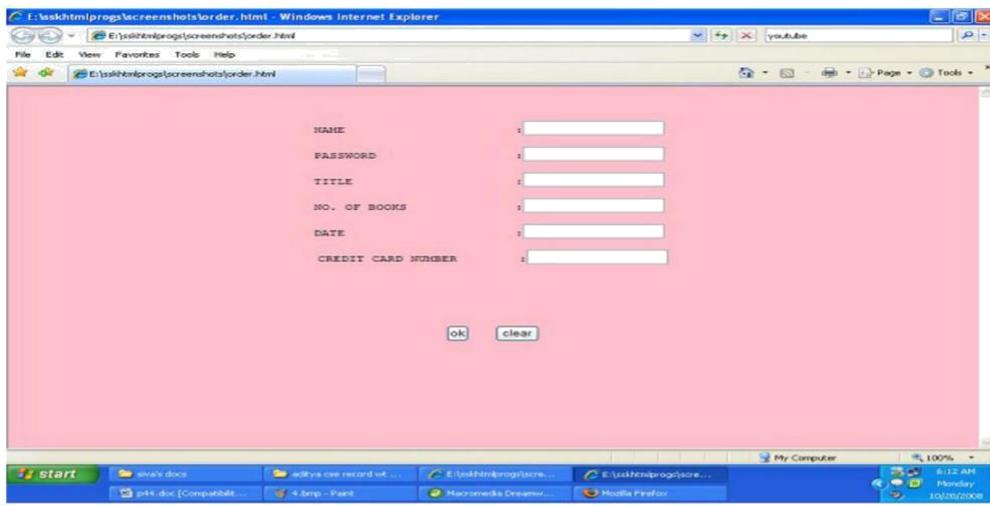
{
    flag1=1;
    x=Integer.parseInt(rs1.getString(1));
    amount=count*x;
    pw.println("AMOUNT:"+amount+"<br><br><br>");
    Statement stmt1=con.createStatement();
    stmt1.executeUpdate("insert into details
values("+id+", "+title+" "+amount+", "+cno+"")");
    pw.println("YOUR ORDER has taken<br>");
}
if(flag1==0)
{
    pw.println("SORRY INVALID ID TRY AGAIN ID<br><br>");
    pw.println("<a href=\\\"/tr/order.html\\\">press HERE
to RETRY</a>");
}
}
pw.println("</body></html>");
con.close();
}
catch(Exception e)
{
    resp.sendError(500,e.toString());
}
}

```

## Output:







### **Program 35:**

**Write a Program to Explain Accessing Java Beans From Java Server Pages**

**/javabeans/firstpage.html:**

**<html>**

```

<body>
  <center><u><h3>
    Program to demonstrate accessing javabeans from jsp
  </h3></u></center>
  <form action="First.jsp">
    First-name:<input type="text" name="firstName"/> <br/><br/>

    Last-Name:<input type="text"
name="lastName"/> <br/><br/>
    Dateofbirth:<input type="text" name="dob"/><br/><br/>
    Address:<textarea name="address" rows="5"
cols"10"/> </textarea><br/><br/>
    <input type="submit" value="submit"/>
  </form>
</body>
</html>

```

/javabeans/First.jsp:

```

<html>
  <body>
    <center><u><h3>
      Program to demonstrate accessing javabeans from jsp
    </h3></u></center><br/><br/>
    <%@page language="java" import="com.nit.beans.FirstBean"
      %> <jsp:useBean id="bean" scope="session"
        class="com.nit.beans.FirstBean">
      <jsp:setProperty name="bean" property="*" />
    </jsp:useBean>

    <center><a href="Second.jsp">
      <h2>click here to view Details</h2></a> </center>

  </body>
</html>

```

/javabeans/Second.jsp:

```

<html>
  <body>
    <center><u><h3>
      Program to demonstrate accessing javabeans from jsp
    </h3></u></center><br/><br/>
    <%@ page import="com.nit.beans.FirstBean"
      %> <jsp:useBean id="bean" scope="session"

```

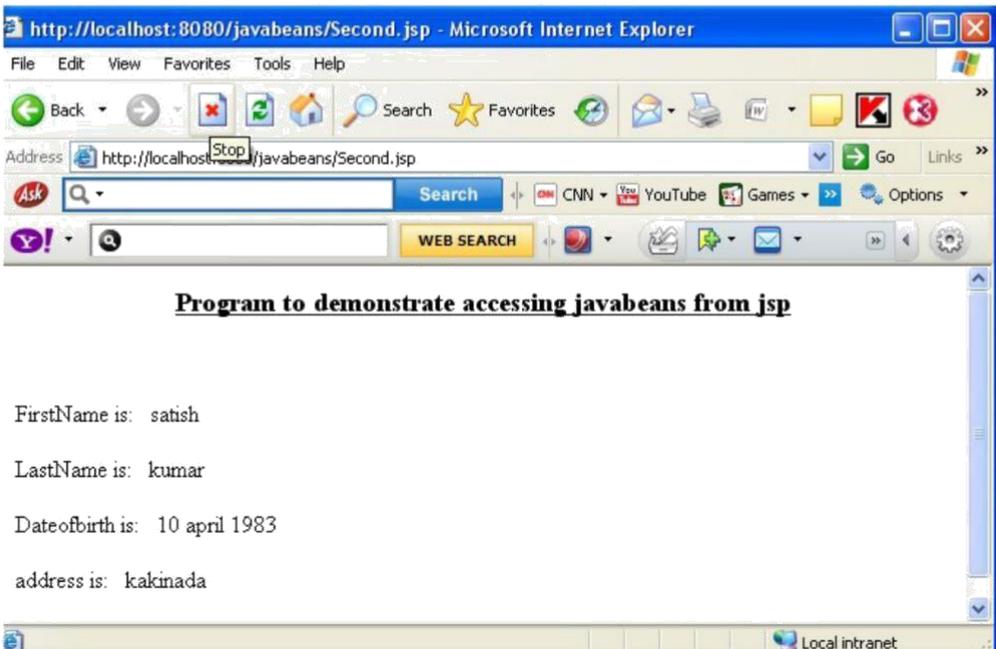
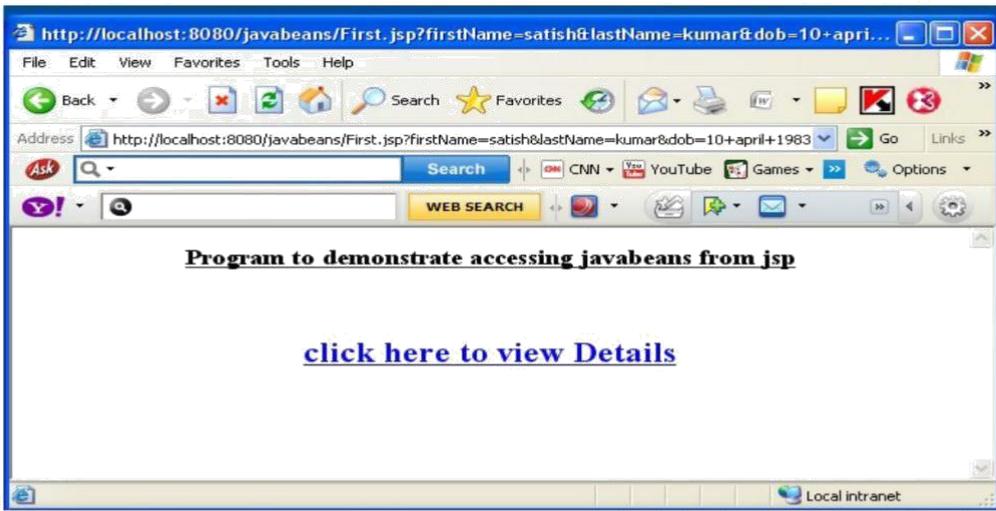


```
{
    return address;
}
public void setDob(String d)
{
    dob=d;
}
public String getDob()
{
    return dob;
}
}
```

### Compilation:

Javac -d . FirstBean.java





### Program 36:

Redo the previous task using JSP by converting the static web pages of assignments 2 into dynamic web pages. Create a database with user information and books information and books information. The books catalogue should be dynamically loaded from the database. Follow the MVC architecture while doing the website.

### PROCEDURE:

- 1) Create your own directory under tomcat/webapps (e.g. tr1)
- 2) Copy the html files in tr1
- 3) Copy the jsp files also into tr1
- 4) Start tomcat give the following command  
Catalina.bat run

4) at I.E give url as <http://localhost:8081/tr1/main.html> Main.html:

```
<html>
<body bgcolor="pink">
<br><br><br><br><br><br>
<h1 align="center"><u>ONLINE BOOK STORAGE</u></h1><br><br><br>
<h2 align="center"><PRE>
<b> Welcome to online book storage. Press
        LOGIN if you are having id
        Otherwise press REGISTRATION
</b></PRE></h2>
```







```

                                press LOGIN to RETRY</a>");
    }
    else
    {
        out.println("VALID LOGIN ID<br><br>");
        out.println("<h3><ul>");
        out.println("<li><a href=\"profile.html\" >
                    <fontcolor=\"black\">USER
                    PROFILE</font></a></li><br><br>");
        out.println("<li><a href=\"catalog.html\" >
                    <fontcolor=\"black\">BOOKS
                    CATALOG</font></a></li><br><br>");

        out.println("<li><a href=\"order.html\"><fontcolor=\"bl
ack\">ORDER CONFIRMATION</font></a></li><br><br>");
        out.println("</ul>");
    }
    out.println("<body></html>");
%>

```

#### Reg.jsp:

```

<%@page import="java.sql.*"%>
<%@page import="java.io.*"%>
<%
    out.println("<html><body bgcolor=\"pink\">"); String
    name=request.getParameter("name"); String
    addr=request.getParameter("addr"); String
    phno=request.getParameter("phno"); String
    id=request.getParameter("id"); String
    pwd=request.getParameter("pwd"); int
    no=Integer.parseInt(phno);

    Driver d=new oracle.jdbc.driver.OracleDriver();
    DriverManager.registerDriver(d);
    Connection con=DriverManager.getConnection
        ("jdbc:oracle:thin:@localhost:1521:orcl","scott","tiger");
    Statement stmt=con.createStatement();
    String sqlstmt="select id from login";
    ResultSet rs=stmt.executeQuery(sqlstmt);
    int flag=0;
    while(rs.next())
    {
        if(id.equals(rs.getString(1)))
        {
            flag=1;
        }
    }

```

```

    }
    if(flag==1)
    {
        out.println("SORRY LOGIN ID ALREADY EXISTS TRY AGAIN WITH
                    NEW ID <br><br>");
        out.println("<a href='\"/tr1/reg.html\"'>press REGISTER to RETRY</a>");
    }
    else
    {
        Statement stmt1=con.createStatement (); stmt1.executeUpdate
        ("insert into login values
        (+name+\",\"+addr+\",\"+no+\",\"+id+\",\"+pwd+)"); out.println ("YOU
        DETAILS ARE ENTERED <br><br>");
        out.println ("<a href =\"/tr1/login.html\">press LOGIN
        to login</a>");
    }
    out.println ("</body></html>");
%>

```

### Profile.jsp:

```

<%@page import="java.sql.*"%>
<%@page import="java.io.*"%>
<%
    out.println ("<html><body bgcolor='\"pink\"'>"); String
    id=request.getParameter("id");
    Driver d=new oracle.jdbc.driver.OracleDriver();
    DriverManager.regiserDriver(d);
    Connection con=DriverManager.getConnection
        ("jdbc:oracle:thin:@localhost:1521:orcl","scott",
        "tiger");
    Statement stmt=con.createStatement ();
    String sqlstmt="select * from login where id="+id+""; ResultSet
    rs=stmt.executeQuery (sqlstmt); int flag=0;

    while(rs.next())
    {
        out.println ("<div align='\"center\"'>");
        out.println("NAME          :"+rs.getString(1)+"<br>");
    }

```

```

        out.println ("ADDRESS      :" +rs.getString(2)+"<br>");
        out.println ("PHONE NO    :" +rs.getString(3)+"<br>");
        out.println ("</div>");
        flag=1;
    }
    if(flag==0)
    {
        out.println("SORRYINVALID ID TRY AGAIN ID <br><br>");
        out.println("<a href='\"/tr1/profile.html\"'>press HERE
                                                                to RETRY </a>");
    }
    out.println ("</body></html>");
%>

```

### Catalog.jsp:

```

<%@page import="java.sql.*"%>
<%@page import="java.io.*"%>
<%
    out.println ("<html><body bgcolor='\"pink\"'>"); String
    title=request.getParameter ("title");
    Driver d=new oracle.jdbc.driver.OracleDriver ();
    DriverManager.regiserDriver (d);
    Connection con=DriverManager.getConnection
        ("jdbc:oracle:thin:@localhost:1521:orcl",
        "scott","tiger");
    Statement stmt=con.createStatement ();
    Stringsqlstmt="select * from book where title="+title+"";
    ResultSet rs=stmt.executeQuery (sqlstmt);
    int flag=0;
    while(rs.next())
    {
        out.println ("<div align='\"center\"'>");
        out.println("TITLE      :" +rs.getString(1)+"<br>");
        out.println("AUTHOR      :" +rs.getString(2)+"<br>");
        out.println("VERSION:" +rs.getString(3)+"<br>");
        out.println("PUBLISHER   :" +rs.getString(4)+"<br>");
        out.println("COST       :" +rs.getString(5)+"<br>");
        out.println ("</div>");
        flag=1;
    }
    if(flag==0)
    {
        out.println("SORRY INVALID ID TRY AGAIN ID<br><br>");
        out.println("<a href='\"/tr1/catalog.html\"'>press HERE
                                                                to RETRY </a>");
    }
    out.println ("</body></html>");

```

%>

Order.jsp:

```
<%@page import="java.sql.*"%>
<%@page import="java.io.*"%>
<%
    out.println("<html><body bgcolor=\"pink\">"); String
    id=request.getParameter("id"); String
    pwd=request.getParameter("pwd"); String
    title=request.getParameter("title"); String
    count1=request.getParameter("no"); String
    date=request.getParameter("date"); String
    cno=request.getParameter("cno"); int
    count=Integer.parseInt(count1);
    Driver d=new oracle.jdbc.driver.OracleDriver ();
    DriverManager.regiserDriver (d);
    Connection con=DriverManager.getConnection
        ("jdbc:oracle:thin:@localhost:1521:orcl",
        "scott","tiger");

    Statement stmt=con.createStatement ();
    String sqlstmt="select id, password from login"; ResultSet
    rs=stmt.executeQuery (sqlstmt); int flag=0,amount,x;

    while(rs.next())
    {
        if(id.equals(rs.getString(1))&&
        pwd.equals(rs.getString(2)))
        {
            flag=1;
        }
    }
    if(flag==0)
    {
        out.println("SORRY INVALID ID TRY AGAIN ID <br>");
        out.println("<a href=\"/tr1/order.html\">press HERE
        to RETRY </a>");
    }
    else
    {
        Statement stmt2=con.createStatement();
        String s="select cost from book where title=
        +title+";

        ResultSet rs1=stmt2.executeQuery(s);
        int flag1=0;
        while(rs1.next())
        {
            flag1=1;
        }
    }
%>
```

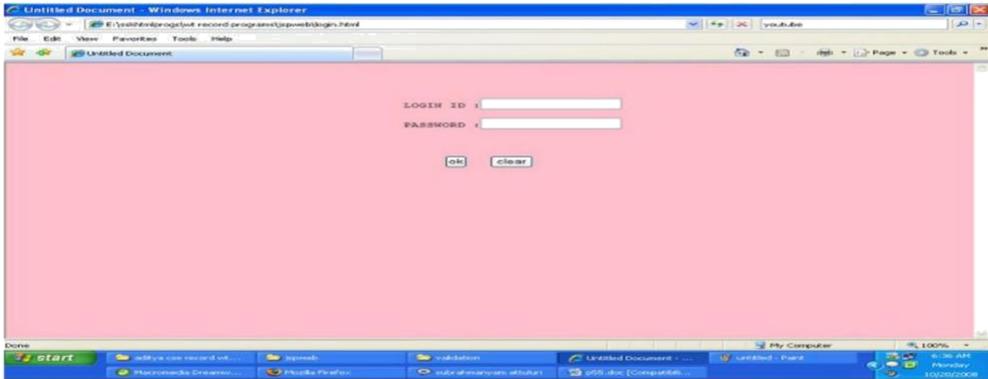
```

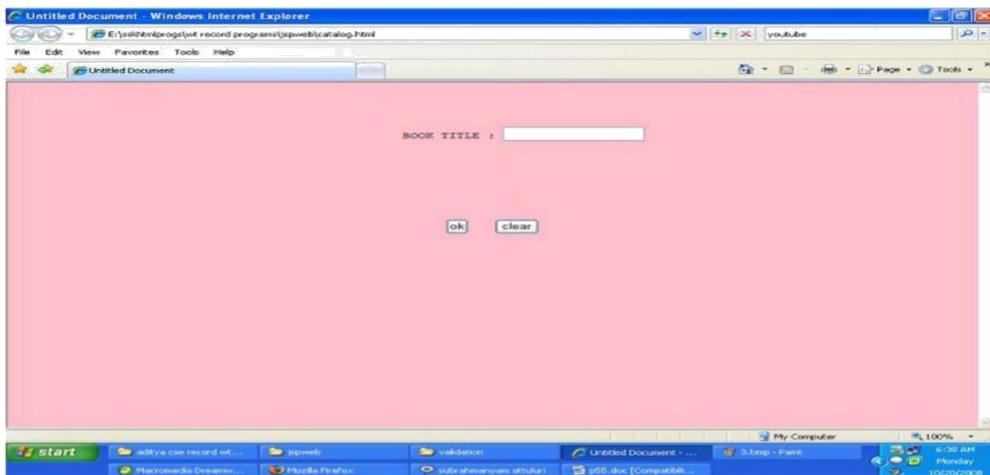
x=Integer.parseInt(rs1.getString(1));
amount=count*x;
out.println("AMOUNT:"+amount+"<br><br>"); Statement
stmt1=con.createStatement (); stmt1.executeUpdate("insert
into details ("+id+",
"+title+", "+amount+", "+date+", "+cno+");");
out.println ("YOU ORDER HAS TAKEN<br>");
}

if(flag1==0)
{
out.println("SORRY INVALID BOOK TRY AGAIN <br><br>");
out.println("<a href='\"/tr1/order.html\"'>press HERE to
RETRY </a>");
}
}
out.println ("</body></html>");
%>

```







### **Program 37:**

**Write a jdbc program to retrieve empno,ename,job from the emp Table**

**ResultSetEx.java:**

```

import java.sql.*;
public class ResultSetEx
{
    public static void main(String args[]) throws Exception {

        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=DriverManager.getConnection("jdbc:
            oracle:thin:@localhost:1521:mrec","scott","tiger");
        Statement st=con.createStatement();
        ResultSet rs=st.executeQuery("select empno,ename,job from emp");

        while(rs.next())
        {
            int no=rs.getInt(1);
            String name=rs.getString(2); String job=rs.getString("job");
            System.out.println(no+"\t"+name+"\t"+job+"\n");

        }
        rs.close();
        st.close();
        con.close();
    }
}

```

**Compilation:**

Javac ResultSetEx.java

**Execution:**

Java ResultSetEx

**Output:**

```

7369 SMITH      CLERK
7499 ALLEN      SALESMAN
7521 WARD       SALESMAN
7566 JONES      MANAGER
7654 MARTIN    SALESMAN
7698 BLAKE      MANAGER
7782 CLARK      MANAGER
7788 SCOTT     ANALYST
7839 KING      PRESIDENT
7844 TURNER    SALESMAN
7876 ADAMS     CLERK

```

7900 JAMES	CLERK
7902 FORD	ANALYST
7934 MILLER	CLERK

### **Program 38:**

Write a jdbc program to insert empno,empname,job into emp table using PreparedStatement

#### **InsertEx.java:**

```
import java.sql.*;
public class InsertEx
{
    public static void main(String args[]) throws Exception {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=DriverManager.getConnection("jdbc:
            oracle:thin:@localhost:1521:mrec","scott","tiger");
        PreparedStatement ps=con.prepareStatement("insert into
            emp(empno,ename,job) values(?,?,?)");
```

```

        ps.setInt(1,101);
        ps.setString(2,"satish");
        ps.setString(3,"teamlead");
        int i=ps.executeUpdate();
        System.out.println("row inserted successfully");
        ps.setInt(1,201);
        ps.setString(2,"prasad");
        ps.setString(3,"manager");
        i+=ps.executeUpdate();
        System.out.println(i+"rows inserted successfully");
        con.close();
    }
}

```

**Compilation:**

Javac InsertEx.java

**Execution:**

Java InsertEx

**Output:**

row inserted successfully  
2rows inserted successfully

**Program 39:**

Write a jdbc program to retrieve data from a given table name using ResultSetMetaData interface

**RSMDEX.java:**

```

import java.sql.*;
import java.util.*;
public class RSMDEX
{
    public static void main(String s[])throws Exception {

        String tablename=s[0];
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        Connection con=DriverManager.getConnection("jdbc:
            odbc:cseb","scott","tiger");

        Statement st=con.createStatement();
        ResultSet rs=st.executeQuery("select                * from "+tablename);
        ResultSetMetaData rsmd=rs.getMetaData();
        int col_count=rsmd.getColumnCount();
        System.out.println("-----");
        for(int i=1;i<=col_count;i++)
    }
}

```

```

{
    System.out.print(rsmd.getColumnName(i) + "\t");
}
System.out.println();
System.out.println(" ----- ");
while(rs.next())
{
    for(int i=1;i<=col_count;i++)
    {
        int type=rsmd.getColumnType(i);
        if(type==Types.INTEGER)
        {
            System.out.print(rs.getInt(i) + "\t");
        }
        else if(type==Types.DOUBLE)
        {
            System.out.print(rs.getDouble(i) + "\t");
        }
        else
        {
            System.out.print(rs.getString(i) + "\t");
        }
    }
    System.out.println();
}
}
}

```

Output:

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

