

**PRINCE SHRI VENKATESHWARA  
PADMAVATHY ENGINEERING COLLEGE**

**PONMAR, CHENNAI - 600 127.**



**DEPARTMENT OF  
INFORMATION TECHNOLOGY  
(B.TECH. – V SEMESTER)  
IT8511 – WEB TECHNOLOGY LABORATORY  
(2022 – 2023)**

NAME : \_\_\_\_\_

REGISTER NO : \_\_\_\_\_

BRANCH : \_\_\_\_\_

COURSE : \_\_\_\_\_

**PRINCE SHRI VENKATESHWARA PADMAVATHY  
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**BONAFIDE CERTIFICATE**

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*Certified that this is a Bonafide Record of practical work done by the above student in **IT8511 – WEB TECHNOLOGY LABORATORY** during the year 2022 – 2023.*

Submitted for Practical Examination held on .....

**Signature of Faculty In-Charge**

**Signature of Principal**

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

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<b>Ex No: 1</b>	<b>CREATING A WEBPAGE WITH IMAGE MAPS AND HOTSPOTS</b>
<b>Date:</b>	

**AIM:**

To create a webpage with the following using HTML

- To embed an image in web page
- To fix the hot spots.
- Show all the related information when a hot spot is clicked in the map

**ALGORITHM:**

- Create a html file with map tag.
- Set the source attribute of the img tag to the location of the image and also set the use map attribute.
- Specify an area with name, shape and href set of the appropriate value.
- Repeat step3 as many hot spots you want to put in the map.
- Create html file for each and every hot spots the user will select the particular location it shows information about it.

**PROGRAM:**

```
/*mapping.html*/
```

```
<html>
```

```
<head>
```

```
<title>India Map</title>
```

```
</head>
```

```
<body bgcolor="PINK">
```

```
<font face="Monotype Corsiva" color="BLUE" size="6">
```

```
<marquee direction="left" behavior="alternate">INDIA MAP
```

```
</marquee>
```

```
</font>
```

```
<hr size="6" color="RED">
```

```
<map name="pagemap">
```

```
<area shape="rect" coords="194,151,247,219" href="map1.html">
```

```
<area shape="rect" coords="291,268,384,337" href="map2.html">
```

```
<area shape="rect" coords="100,337,197,384" href="map3.html">
```

```
<area shape="rect" coords="236,543,344,577" href="map4.html">
```

```
</map>
```

```

</body>
<font color="#ff0000" size="5">
<p><b>Hints:</b>
<i>Click on the Name of the Cities in the map to know itsdescription</i></p>
</html>
```

```
/*map1.html*/
```

```
<html>
<body bgcolor="SKYBLUE">
<font face="Monotype Corsiva" size="18" color="RED">
<center><b><i><tt>Delhi is the capital of our INDIA<br> and <br>More IT companies are
Camped at Delhi</tt></i></b></center>
<a href="mapping.html">Home Page</a>
</font>
</body>
</html>
```

```
/*map2.html*/
```

```
<html>
<body bgcolor="SKYBLUE">
<font face="Times New Roman" size="18" color="RED">
<center><b><i>Calcutta is the wealthy city in WEST BENGAL<br> and <br>it has Famous
"Sunderbans Forests"</i></b></center>
<a href="mapping.html">Home Page</a>
</font></body></html>
```

```
/*map3.html*/
```

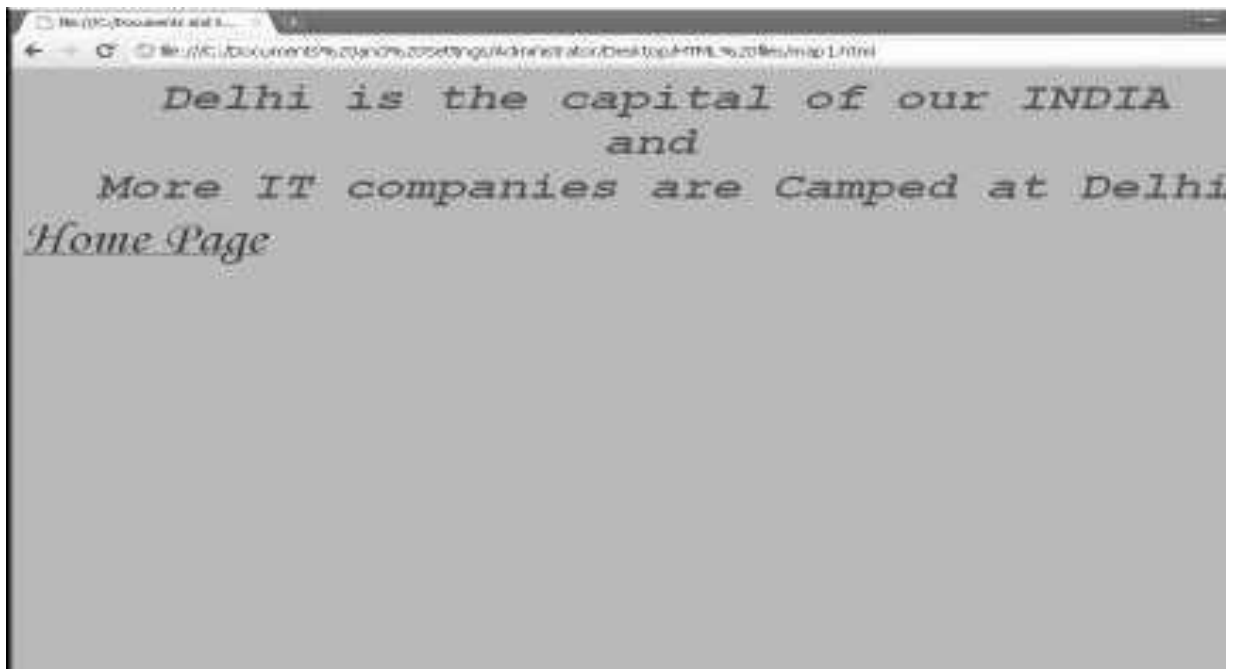
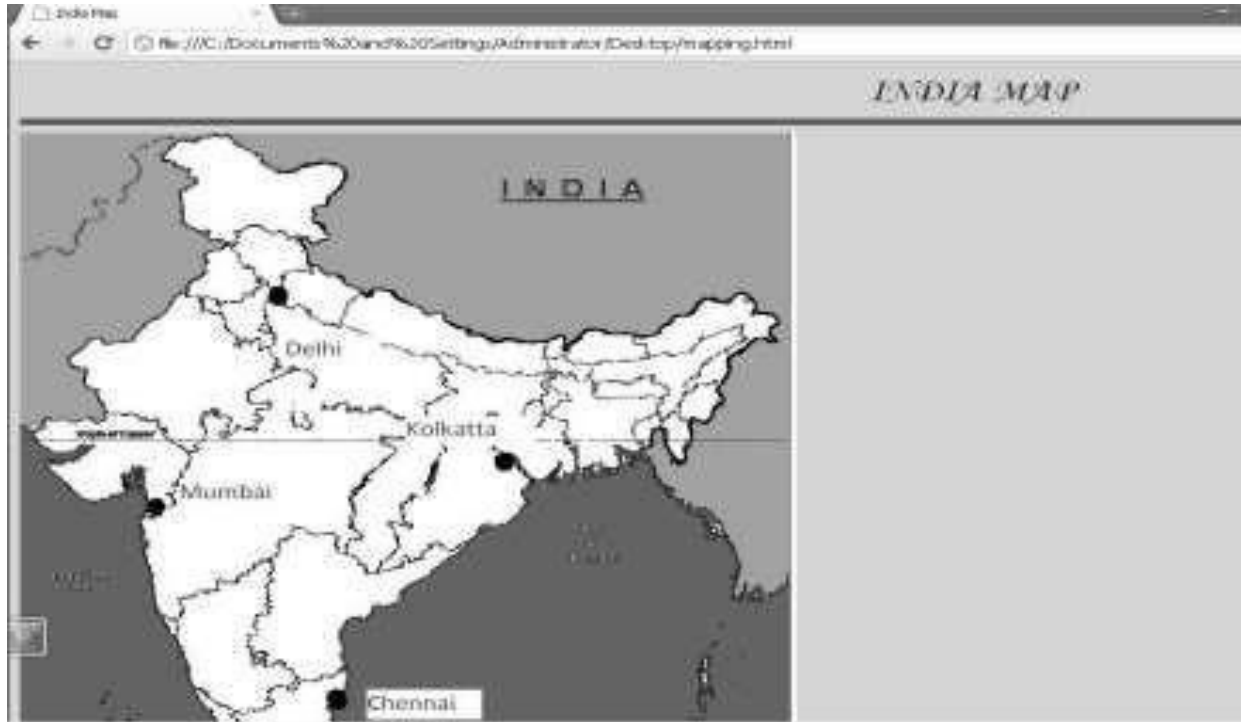
```
<html>
<body bgcolor="DARKGREEN">
<font face="Times New Roman" size="12" color="RED">
<center>MUMBAI is the capital of Maharashtra<br> and <br>it has Famous India
Gate</center>
<a href="mapping.html">Home Page</a>
</font>
</body>
</html>
```

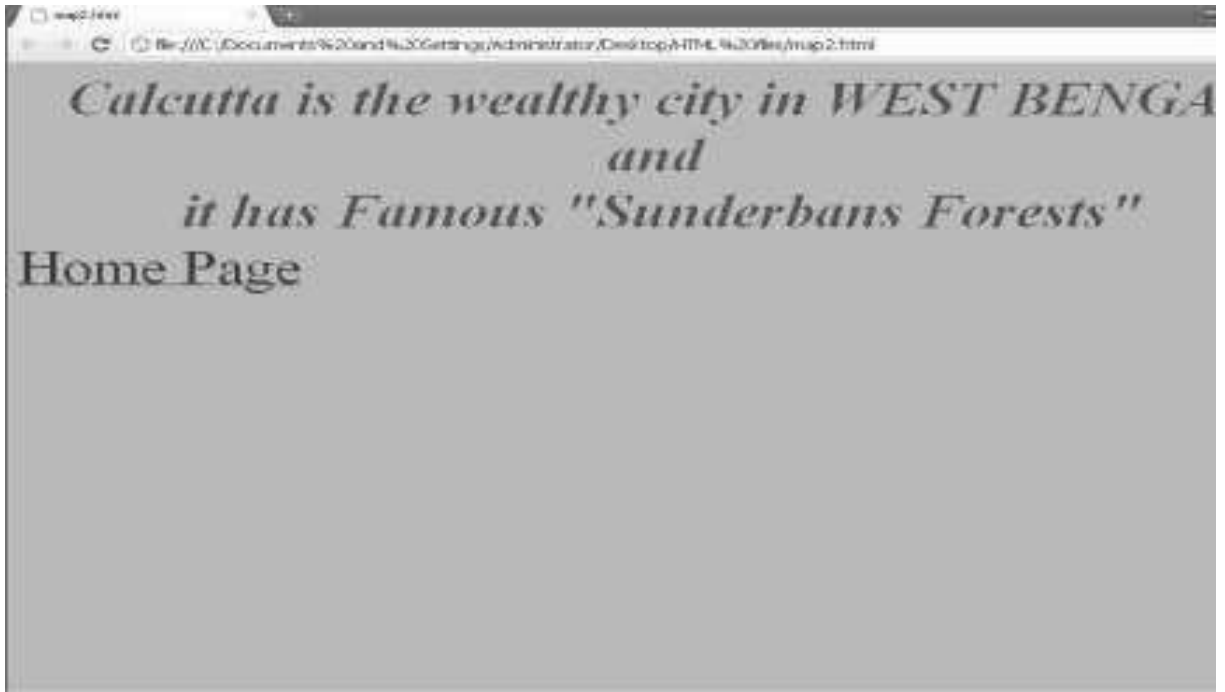
```
/*map4.html*/
```

```
<html>
<body bgcolor="BLACK">
<font face="Times New Roman" size="12" color="RED">
<center>Chennai is hte capital of Tamil Nadu<br> and <br>More IT companies are camped at
```

```
Chennai</center>
<a href="mapping.html">Home Page</a>
</font></body></html>
```

**OUTPUT:**





**RESULT:**

Thus creation of an webpage using cascading style sheet has been developed successfully.

<b>Ex No:2</b>	<b>CREATING A WEBPAGE WITH CASCADING STYLE SHEET</b>
<b>Date:</b>	

**AIM:**

To create a webpage using html to embedded the style sheet.

**ALGORITHM:**

Step1: Create html file with the style tag, inside head tag.

Step2: Set the style such as font-family, font-size, color, left etc, for the heading

h1, h2, ...h6 and respectively.

Step3: Close the head tag.

Step4: Specify the heading and information required inside the body tag.

Step5: Close the opened tag.

**PROGRAM:**

```
<!DOCTYPE html PUBLIC"-//W3C//DTD XHTML 1.0
TRANSTION//EN"http://www.w3.org/TR/html1/DTD/html1\_1.dtd>
```

```
<html xmlns="http://www.w3org/1999/xhtml">
```

```
<head>
```

```
<title>Embedded style sheet</title>
```

```
<style type="text/css">
```

```
h1
```

```
{
```

```
font-family:arial;
```

```
color:green;
```



```
}
```

```
h2
```

```
{
```

```
font-family:arial;
```

```
color:red;
```

```
left:20px
```

```
}
```

```
h3
```

```
{
```

```
font-family:arial;
```

```
color:blue;
```

```
}
```

```
p
```

```
{
```

```
font-size:14pt;
```

```
font-family:verdana
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>
```

<center>This is created using embedded style sheet

</center>

</h1>

<h2>This line is alligned left and red colored;

</h2>

<p>

The embedded style sheet is the most commonly used style sheet

This paragrah is return in verdana font with font size of 14.

</p>

<h3>

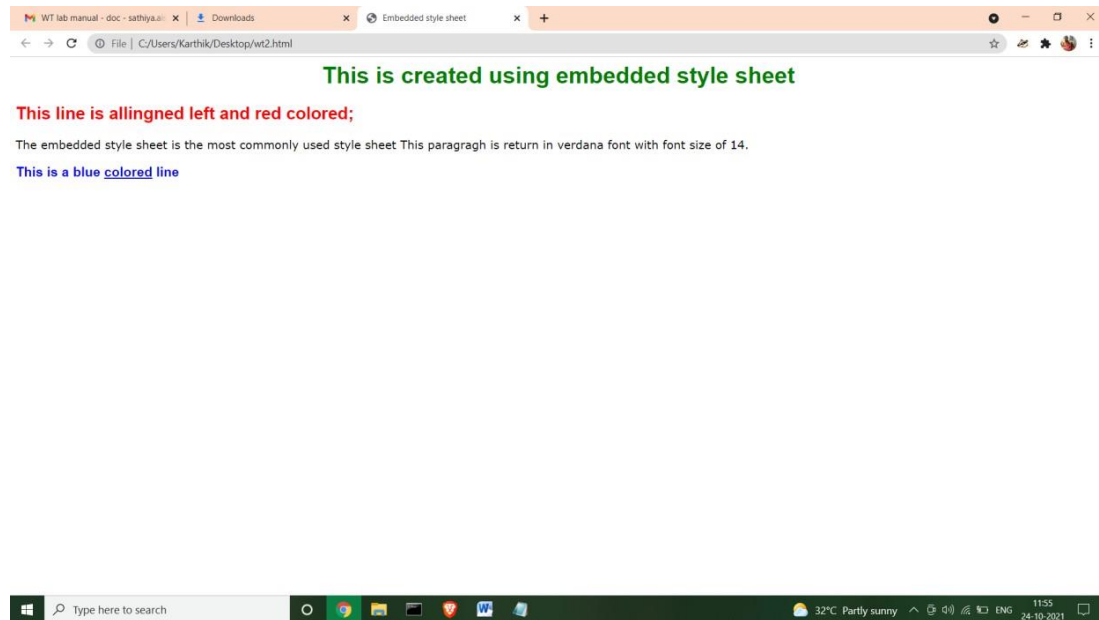
This is a blue <a href="colorname.html">colored</a> line

</h3>

</body>

</html>

## **OUTPUT:**



## **RESULT:**

Thus creation of an webpage using cascading style sheet has been developed successfully.

<b>Ex No:3</b>	<b>VALIDATING WEB FORM CONTROLS USING DHTML</b>
<b>Date:</b>	

**AIM:**

To develop a program for validating web form control using DHTML.

**ALGORITHM:**

Step1: Start the program.

Step2: Define the title within the tag.

Step3: Give the script type within the script tag.

Step4: Validate each and every column as the box with if condition.

Step5: If empty value is given or the block term is next then it is verified with certain condition.

Step6: If values is empty then a message is been displayed.

Step7: Form is designed with GUI tool is description.

Step8: All buttons are processed accordingly.

Step9: Stop the program.

**PROGRAM:****//Webforms.html**

```
<html>
<head>
<script type='text/javascript'>
function formValidator()
{
var firstname=document.getElementById('firstname');
var lastname=document.getElementById('lastname');
var addr=document.getElementById('addr');
var zip=document.getElementById('zip');
var Countries=document.getElementById('Countries');
var username=document.getElementById('username');
var email=document.getElementById('email');
var dd=document.getElementById('dd');
var mm=document.getElementById('mm');
var yyyy=document.getElementById('yyyy');
var comment=document.getElementById('comment');
var password=document.getElementById('password');
if(isAlphabet(firstname,"Please enter only letters for your First name"))
{
if(isAlphabet(lastname,"Please enter only letters for your Last name"))
{
if(isNumeric(dd,"Please enter a date"))
{
if(madeSelection(mm,"Please Choose"))
{
if(isNumeric(yyyy,"Please enter a year"))
{
if(isAlphanumeric(addr,"Enter Numbers and letters only for address"))
{
if(isNumeric(zip,"please enter a valid zip code"))
{
if(madeSelection(Countries,"Please Choose"))
{
if(lengthRestriction(username,6,8))
{
if(isAlphanumeric(password,"Enter Numbers and letters only for password"))
```

```
{
if(emailValidator(email,"Please enter a valid email address"))
{
if(notEmpty(comment,"Please fill the comment"))
{
document.write("<b><i>Thank's for submitting your details</i></b>");
alert("Successful Entry!!");
return true;
}}}}}}}}}}}}
return false;
}
function notEmpty(elem,helperMsg)
{
if(elem.value.length==0)
{
alert(helperMsg);
elem.focus();
return false;
}
return true;
}
function isNumeric(elem,helperMsg)
{
var numericExpression=/^[0-9]+$/;
if(elem.value.match(numericExpression))
{
return true;
}
else
{
alert(helperMsg);
elem.focus();
return false;
}
}
function isAlphabet(elem,helperMsg)
{
var alphaExp=/^[a-zA-Z]+$/;
if(elem.value.match(alphaExp))
{
return true;
}
else
{
alert(helperMsg);
```

```
elem.focus();
return false;
}
}
function isAlphanumeric(elem,helperMsg)
{
var alphaExp=/^[0-9, a-z a-z, 0-9, A-Z A-Z, - 0-9 . ]+$/;
if(elem.value.match(alphaExp))
{
return true;
}
else
{
alert(helperMsg);
elem.focus();
return false;
}
}
function lengthRestriction(elem,min,max)
{
var unput=elem.value;
if(unput.length>=min&&unput.length<=max)
{
return true;
}
else
{
alert("Please enter between "+min+" and "+max+" characters");
elem.focus();
return false;
}
}
function madeSelection(elem,helperMsg)
{
if(elem.value=="Please Choose")
{
alert(helperMsg);
elem.focus();
return false;
}
else
{
return true;
}
}
```

```

function emailValidator(elem,helperMsg)
{
var emailExp=/^[0-9 a-z . a-z 0-9]+\@[a-z]+\.[a-z]{2,4}$/;
if(elem.value.match(emailExp))
{
return true;
}
else
{
alert(helperMsg);
elem.focus();
return false;
}
}
</script>
<h1><center><b><font color="#347235">Please Enter YourDetails</font></b></center>
</h1>
</head>
<body bgcolor="LIGHTGREEN">
<hr>
<form onsubmit='return formValidator()' height="50%">
<table height="50%" border="3pt" align="center">
<tr><td><b><font color="#347235">First Name:</font></b></td><td><input
type='text' id='firstname'/></td></tr><br />
<tr><td><b><font color="#347235">Last Name:</font></b></td><td><input
type='text' id='lastname'/></td></tr><br />
<tr><td><b><font color="347235">Date of Birth(dd/mm/yyyy): </font></b></td><td>
<input type='text' id='dd' />
<select id='mm'>
<option>Please Choose</option>
<option value="1">Jan</option>
<option value="2">Feb</option>
<option value="3">Mar</option>
<option value="4">Apr</option>
<option value="5">May</option>
<option value="6">Jun</option>
<option value="7">Jul</option>
<option value="8">Aug</option>
<option value="9">Sep</option>
<option value="10">Oct</option>
<option value="11">Nov</option>
<option value="12">Dec</option>
</select>
<input type='text' id='yyyy' /></td></tr><br />

```



```

<tr><td><b><font color="#347235">Address:</font></b></td><td>
<input type='text' id='addr' /></td></tr><br />
<tr><td><b><font color="#347235">Zip code:</font></b></td><td>
<input type='text' id='zip' /></td></tr><br />
<tr><td><b><font color="#347235">Countries:</font></b></td><td>
<select id='Countries'>
<option>Please Choose</option>
<option value="United Kingdom">United Kingdom</option>
<option value="Afghanistan">Afghanistan</option>
<option value="America">America</option>
<option value="India">India</option>
<option value="Tanzania">Tanzania</option>
<option value="Zimbabwe">Zimbabwe</option>
<option value="Switzerland">Switzerland</option>
</select></td></tr><br />
<tr><td><b><font color="#347235">Username(6-8 characters):</font>
</b></td><td><input type='text' id='username' /></td></tr><br />
<tr><td><b><font color="#347235">Password:</font></b></td><td>
<input type='password' id='password' /></td></tr><br />
<tr><td><b><font color="#347235">Email:</font></b></td><td>
<input type='text' id='email' /></td></tr><br />

<tr><td><b><font color="#347235">Comment:</font>
</b></td><td><textarea id='comment' cols="20" rows="5"
name="Address"></textarea></td></tr><br />
<tr><td><input type='submit' value='Check Form' /></td></tr>
</table>
</form>
</body></html>

```

**OUTPUT:**

**Please Enter Your Details**

First Name:	<input type="text"/>
Last Name:	<input type="text"/>
Date of Birth(dd/mm/yyyy):	<input type="text"/> Please Choose
Address:	<input type="text"/>
Zip code:	<input type="text"/>
Countries:	Please Choose
Username(6-8 characters):	<input type="text"/>
Password:	<input type="text"/>
Email:	<input type="text"/>

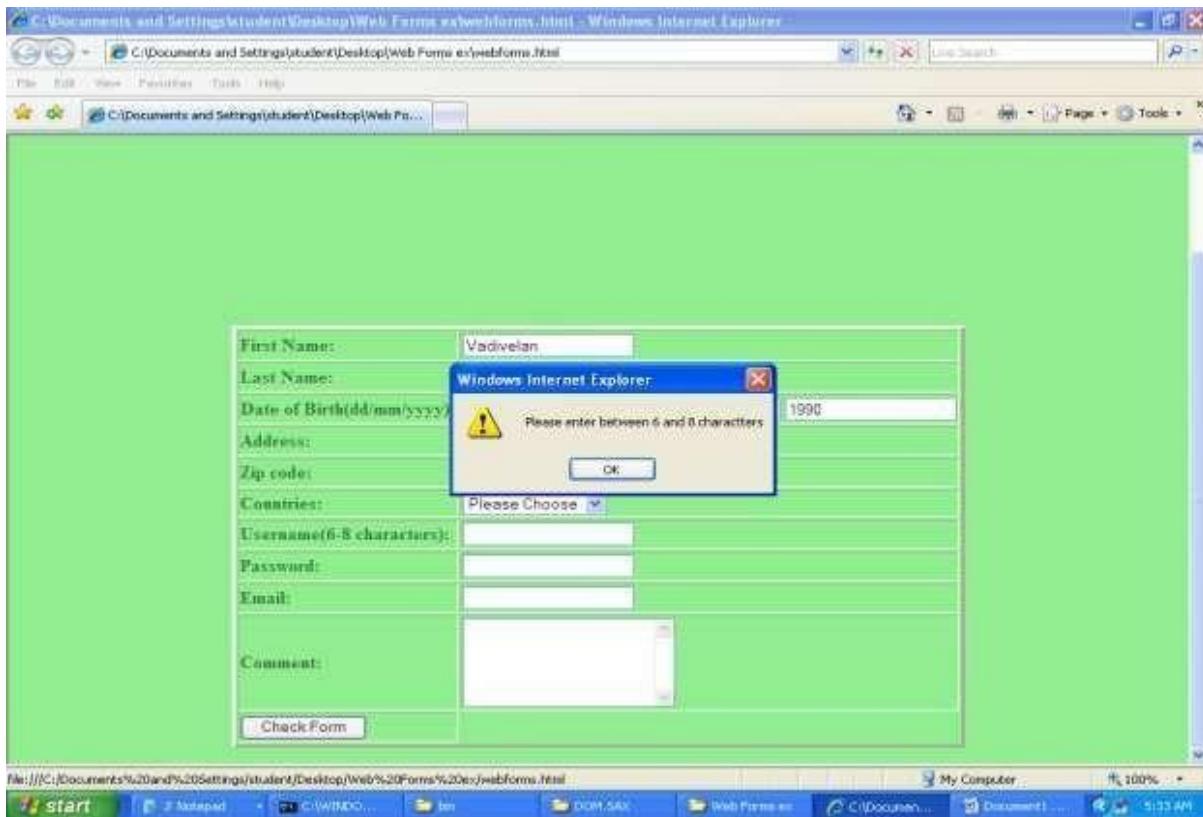
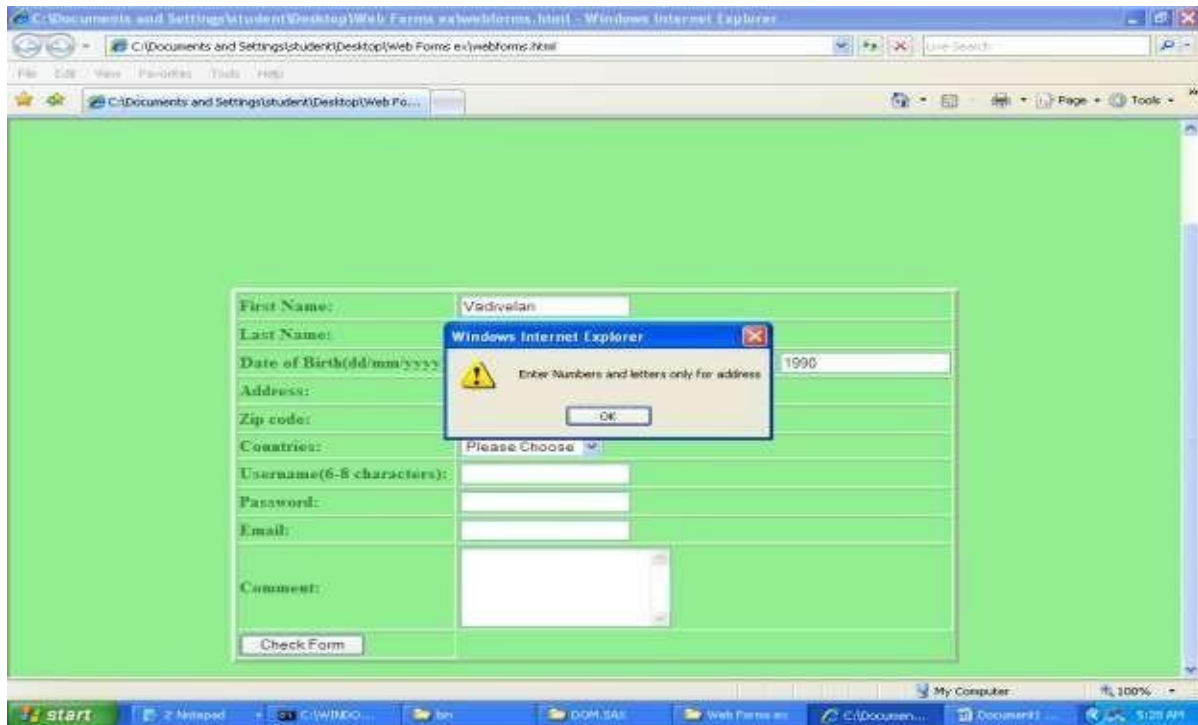
Done

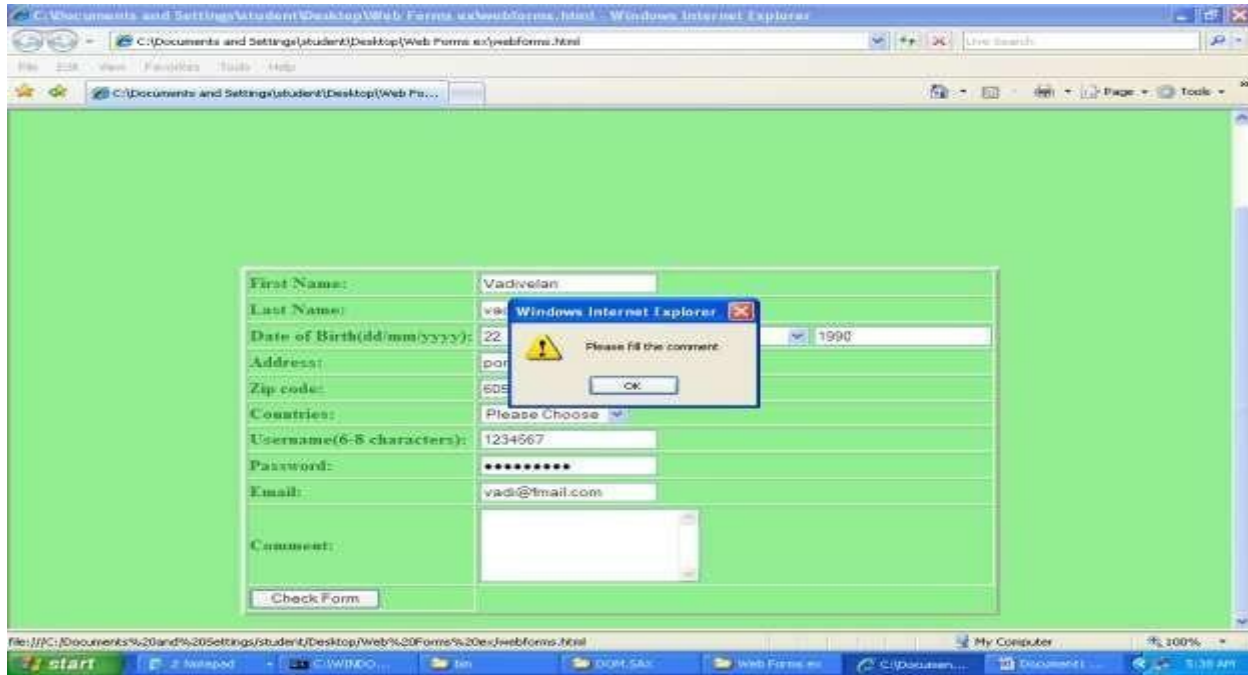
**Please Enter Your Details**

First Name:	Vadivelan
Last Name:	<input type="text"/>
Date of Birth(dd/mm/yyyy):	<input type="text"/>
Address:	<input type="text"/>
Zip code:	<input type="text"/>
Countries:	Please Choose
Username(6-8 characters):	<input type="text"/>
Password:	<input type="text"/>
Email:	<input type="text"/>
Comment:	<input type="text"/>

Check Form

Windows Internet Explorer  
Please enter only letters for your Last name  
OK



**RESULT:**

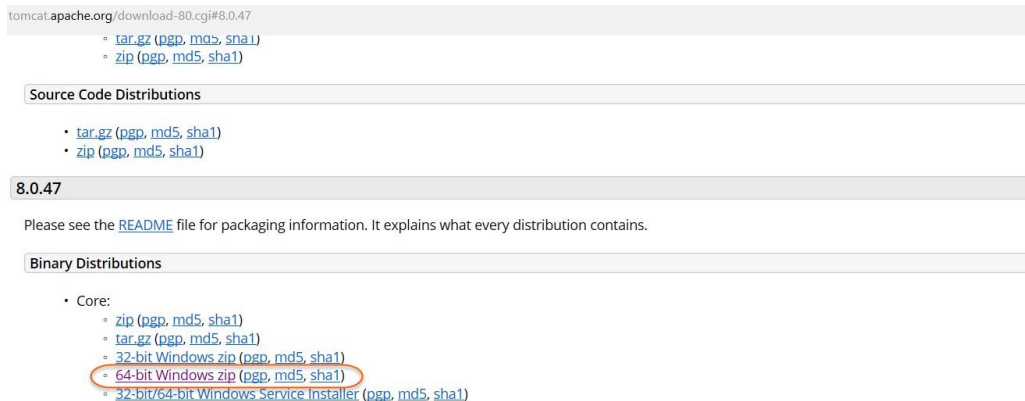
Thus developing client side scripts for validating web form controls using DHTML has been verified.

**Ex No: 4****INSTALLATION OF APACHE TOMCAT WEB SERVER****Date:****AIM:**

To install apache tomcat web server

**ALGORITHM:**

1. Download Tomcat 8.0 at <https://tomcat.apache.org/download-80.cgi#8.0.47>. Select the 64-bit version for Windows:



2. Extract the zip file to a directory on your computer, e.g., **c:/Tomcat8**.
3. To configure Tomcat, you may define **CATALINA\_HOME** and **CATALINA\_BASE** environment variables in the Windows Control Panel, although this will not be required for starting and stopping Tomcat from the command line. Set the value of each environment variable to the install directory in the previous step, e.g., **c:/Tomcat8**.
4. While in the Control Panel environment variables definition panel, add the **bin** directory of Tomcat to the PATH variable. The **bin** directory is located in the install directory, e.g., **c:/Tomcat8/bin**.
5. Tomcat installation and initial configuration is complete.

**RESULT:**

Thus the Apache Tomcat Web Server is installed successfully.

<b>Ex No: 5</b>	<b>INVOKING SERVLET FROM HTML FORMS</b>
<b>Date:</b>	

**AIM:**

To write a html program for invoking servlet using html.

**ALGORITHM:**

Step1: In html program, define the html, head and title tag.

Step2: Then the title is Student Information Form and close the title and head tag.

Step3: Define the body tag inside the body tag create form and table simultaneously.

Step4: The table consists of following information Roll no, Student name, Address, Phoneno and total marks.

Step5: In the servlet program, import the summary package and create a ownservlet class extends with generic servlet.

Step6: In the service method defined to request and response.

Step7: Create the object and for print writer and get writer() value.

Step8: The enumeration object get the servlet request parameter.

Step9: Create objects for string method and it is displayed another object value received get parameter of name received and displayed the value received value.

**PROGRAM:****//index.html**

```
<form action="TestServlet" method="get">
Enter name:<input type="text" name="tf1"/> <br>
<input type="submit" value="submit"/>
</form>
```

**//TestServlet.java**

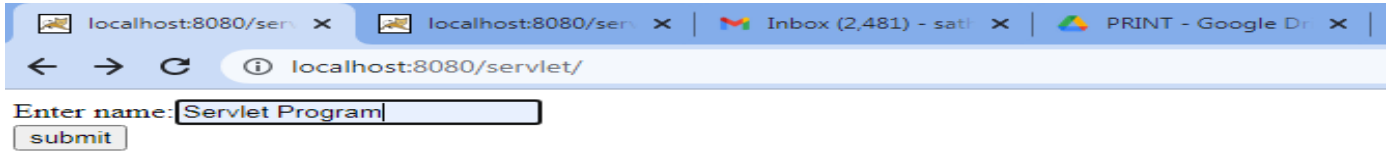
```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class TestServlet extends HttpServlet
{
    public void doGet(HttpServletRequest req,HttpServletResponse res)throws IOException,ServletException
    {
        res.setContentType("text/html");
        PrintWriter out=res.getWriter();
        String s1=req.getParameter("tf1");
        out.print("<h1>Welcome "+s1+" </h1>");
        out.close();
    }
}
```

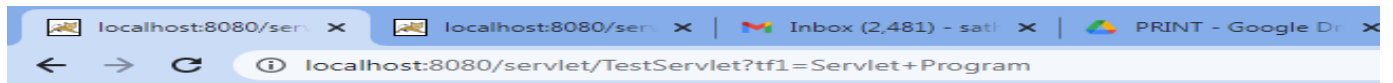
**//web.xml**

```
<web-app>
<servlet>
<servlet-name>s1</servlet-name>
<servlet-class>TestServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>s1</servlet-name>
<url-pattern>/TestServlet</url-pattern>
</servlet-mapping>
</web-app>
```

**OUTPUT:**



A screenshot of a web browser window. The address bar shows 'localhost:8080/servlet/'. Below the address bar, there is a form with the label 'Enter name:' followed by a text input field containing 'Servlet Program' and a 'submit' button.



**Welcome Servlet Program**



**RESULT:**

Thus the invocation of servlet from HTML from has been developed successfully.

<b>Ex No: 6</b>	<b>ONLINE EXAMINATION</b>
<b>Date:</b>	

**AIM:**

To write a java servlet program to conduct online examination and to display student mark list available in a database.

**ALGORITHM:**

Step1: Create a html file with form tag.

Step2: The form tag action="http://localhost:8080/example/servlet/exam".

Step3: Create two textbox(name & seat number).

Step4: The 5 question are defined into true or false model and close all tags.

Step5: Import the necessary packages and declare class, class name in exam.

Step6: Declare the connection, statement and result set object.

Step7: Use the deposit () for check the connection in JDBC:ODBC driver.

Step8: The data are inserted into corresponding table.

Step9: The update () method will update the database.

Step10: Display the table after html file compilation.

**PROGRAM:**

```

//index.jsp
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Welcome to Online Examination!!!!</title>
</head>
<body>
Welcome to Online Examination!!!!
<form action="exam" method="get">
<label><p> Enter Your name Please!!<br/> <input type="text" name="name"/>
<br/>
<input type="submit" name="SUBMIT"/>
</p></label>
</form>
</body>
</html>

//exam.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class exam extends HttpServlet {
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out=response.getWriter();
String name=request.getParameter("name");
out.println("<html>");
    out.println("<head>");
    out.println("<title>Online Examination</title>");
    out.println("</head>");
    out.println("<body bgcolor=PINK>");
    out.println("<h2 align=center>Online Examination</h2><hr>");
    out.println("<h3 align=center> Welcome Mr."+name+"</h3><hr>");
    out.println("<h4><u>Terms and Conditions:</u></h4>");
    out.println("<ul type=disc>");
    out.println("<li>The Paper consists a set of five questions.</li>");
    out.println("<li>Every question consists of two options.</li>");
    out.println("<li>All must be answered</li></ul><hr>");
    out.println("<center><h5><u>Your Questions</u></h5></center>");

```

```

        out.println("<hr>");
        out.println("<form method=get action=exam2>");
        out.println("<p>1.Operating System is a ..... </p>");
        out.println("<input type=radio name=q1 value=0>Hardware");
        out.println("<br>");
        out.println("<input type=radio name=q1 value=1>Software");
        out.println("<hr>");
        out.println("<p>2.Developer of C Language is ..... </p>");
        out.println("<br>");
        out.println("<input type=radio name=q2 value=0>Dennis Richee");
        out.println("<br>");
        out.println("<input type=radio name=q2 value=1>James Thompson");
        out.println("<hr>");
        out.println("<p>3.Which of the following is a multitasking, multiuser, multiprocessing);
        out.println("OS..... </p>");
        out.println("<br>");
        out.println("<input type=radio name=q3 value=0>MS DOS");
        out.println("<br>");
        out.println("<input type=radio name=q3 value=1>Windows NT");
        out.println("<hr>");
        out.println("<p>4.Father of Computers is..... </p>");
        out.println("<br>");
        out.println("<input type=radio name=q4 value=1>Charles babbage");
        out.println("<br>");
        out.println("<input type=radio name=q4 value=0>Charles Dickson");
        out.println("<hr>");
        out.println("<p>5.What is the current generation of computers ?</p>");
        out.println("<br>");
        out.println("<input type=radio name=q5 value=0>Fifth");
        out.println("<br>");
        out.println("<input type=radio name=q5 value=1>Sixth");
        out.println("<hr>");
        out.println("<input type=submit value=Done>");
        out.println("</form>");
        out.println("</body>");
        out.println("</html>");
    }
    public String getServletInfo() {
        return "A Servlet of the user";
    }
}
//exam2.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;

```

```

import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class exam2 extends HttpServlet {
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    int count=0;
    response.setContentType("text/html");
    PrintWriter out=response.getWriter();
    String q1=request.getParameter("q1");
    String q2=request.getParameter("q2");
    String q3=request.getParameter("q3");
    String q4=request.getParameter("q4");
    String q5=request.getParameter("q5");
    if(q1.equals("1"))
    {
        count=count+1;
    }
    if(q2.equals("1"))
    {
        count=count+1;
    }
    if(q3.equals("1"))
    {
        count=count+1;
    }
    if(q4.equals("1"))
    {
        count=count+1;
    }
    if(q5.equals("1"))
    {
        count=count+1;
    }
    out.println("<html>");
    out.println("<head><title>Examination Results</title></head>");
    out.println("<body>");
    out.println("<h2 align=center>Online Examination</h2><hr>");
    out.println("<h3>Number of Questions answered correctly:</h3>"+count);
    if(count>=3)
    {
        out.println("<hr><h3>Congrats!!! You Have Passed!!!</h3><hr>");
        out.println("<h4><b>Try Other Tests!!</b></h4>");
    }
}

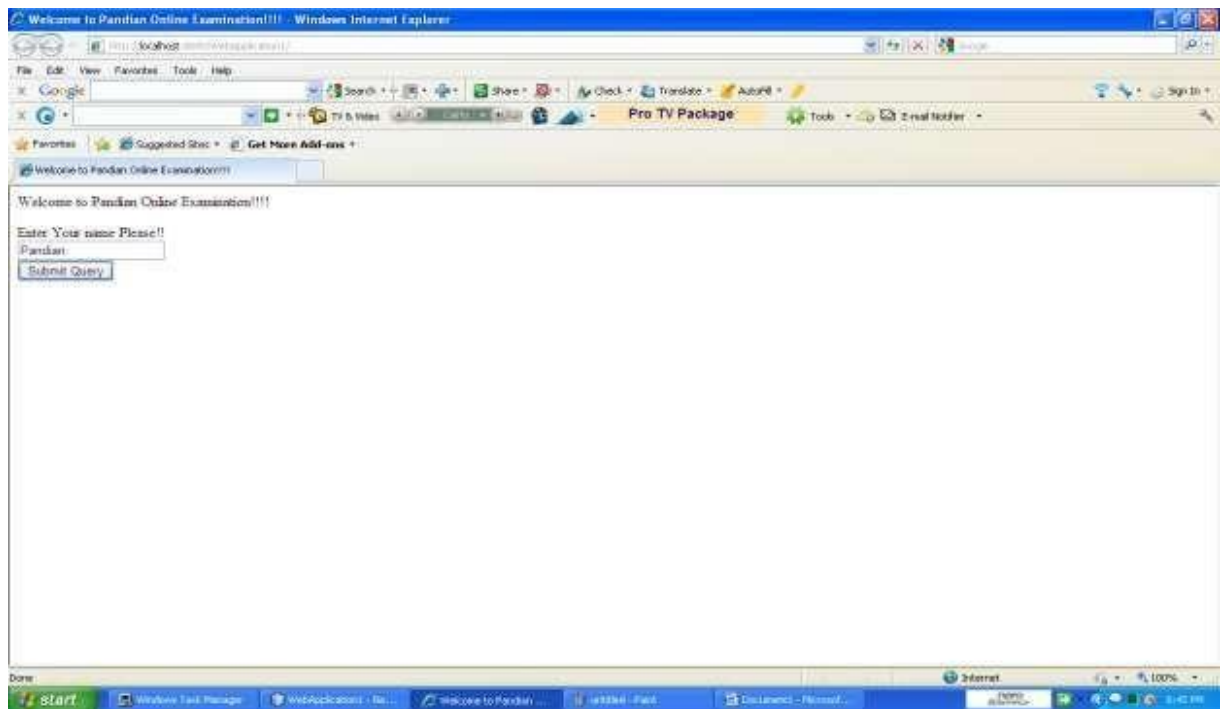
```

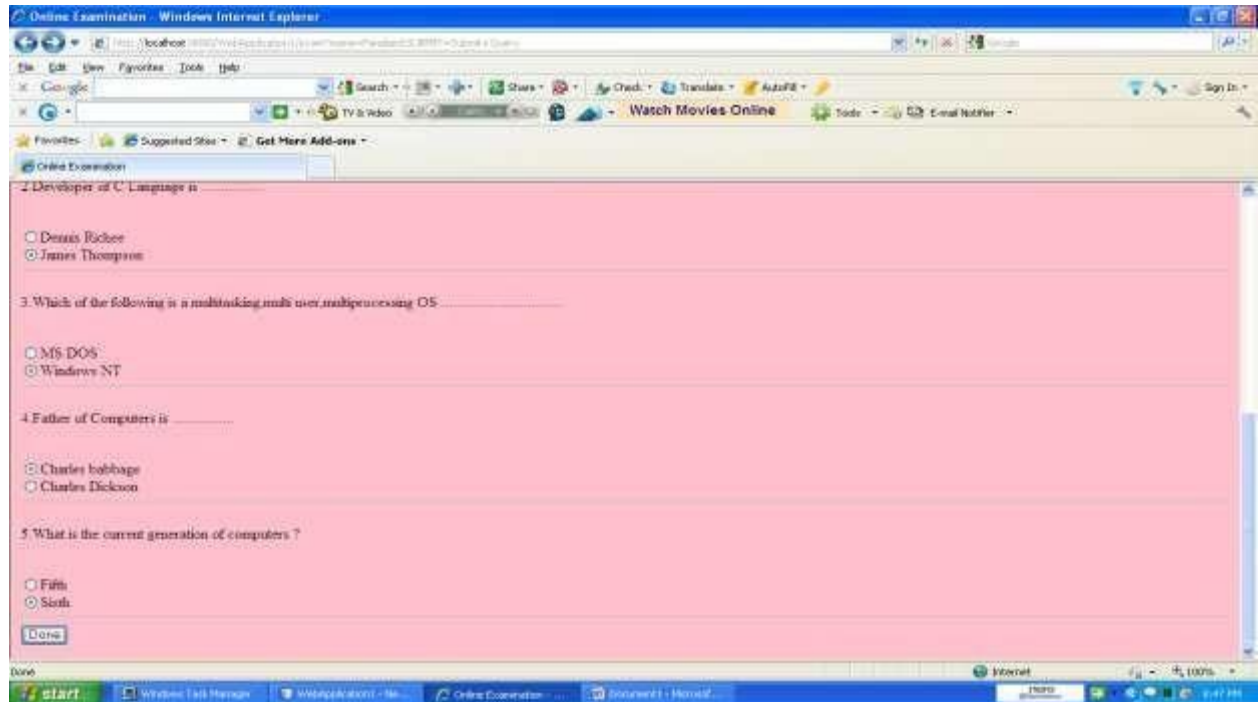
```

else
{
out.println("<hr><h3>Sorry!!! You Have Failed!!!</h3><hr>");
out.println("<h4><b>Try Again:</b></h4>");
}
out.println("</body>");
out.println("</html>");
}
public String getServletInfo() {
return "A Servlet of the User";
}
}

```

### **OUTPUT:**





## **RESULT:**

Thus the development of program in java to create three tire application by servlet has been verified successfully.

<b>Ex No : 7</b>	<b>XML SCHEMA FOR STUDENT DETAILS</b>
<b>Date:</b>	

**AIM:**

To write a program for implementing student information using XML & XSL.

**ALGORITHM:**

Step1: The XML document reference to the XSL document.

Step2: Then create the student information in the student tag and insert the information about the student.

Step3: Close all opened tags.

Step4: In XSL document create a html file include the student information in table format.

Step5: Close the necessary tags.

**PROGRAM:**

**//student.xml**

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/css" href="student.css"?>
<!DOCTYPE student SYSTEM "student.dtd">
<students>
<student>
<sno>801041</sno>
<sname>S.Soundarapandian</sname>
<dob>05/081991</dob>
<address>Neyveli</address>
<m1>80</m1>
<m2>90</m2>
<m3>95</m3>
</student>
```



```

<student>
<sno>801049</sno>
<sname>R.Vadivelan</sname>
<dob>22/07/1990</dob>
<address>Pondicherry</address>
<m1>90</m1>
<m2>95</m2>
<m3>80</m3>
</student>
<student>
<sno>801037</sno>
<sname>R.Satheesh</sname>
<dob>21/01/1991</dob>
<address>Kanyakumari</address>
<m1>80</m1>
<m2>90</m2>
<m3>95</m3>
</student>
</students>

```

#### **//student.css**

```

Student { background.color:#aabbcc;width:100%;}
Sno { display:block; color:GREEN; font.size:25pt; }
Sname { display:block; color:BLACK; font.size:20pt; }
Dob { display:block; color:BLUE; font.size:15pt; }
Address { display:block; color:BLUE; font.size:15pt; }
m1 { display:block; color:BLUE; font.size:15pt; }
m2 { display:block; color:BLUE; font.size:15pt; }
m3 { display:block; color:BLUE; font.size:15pt;}

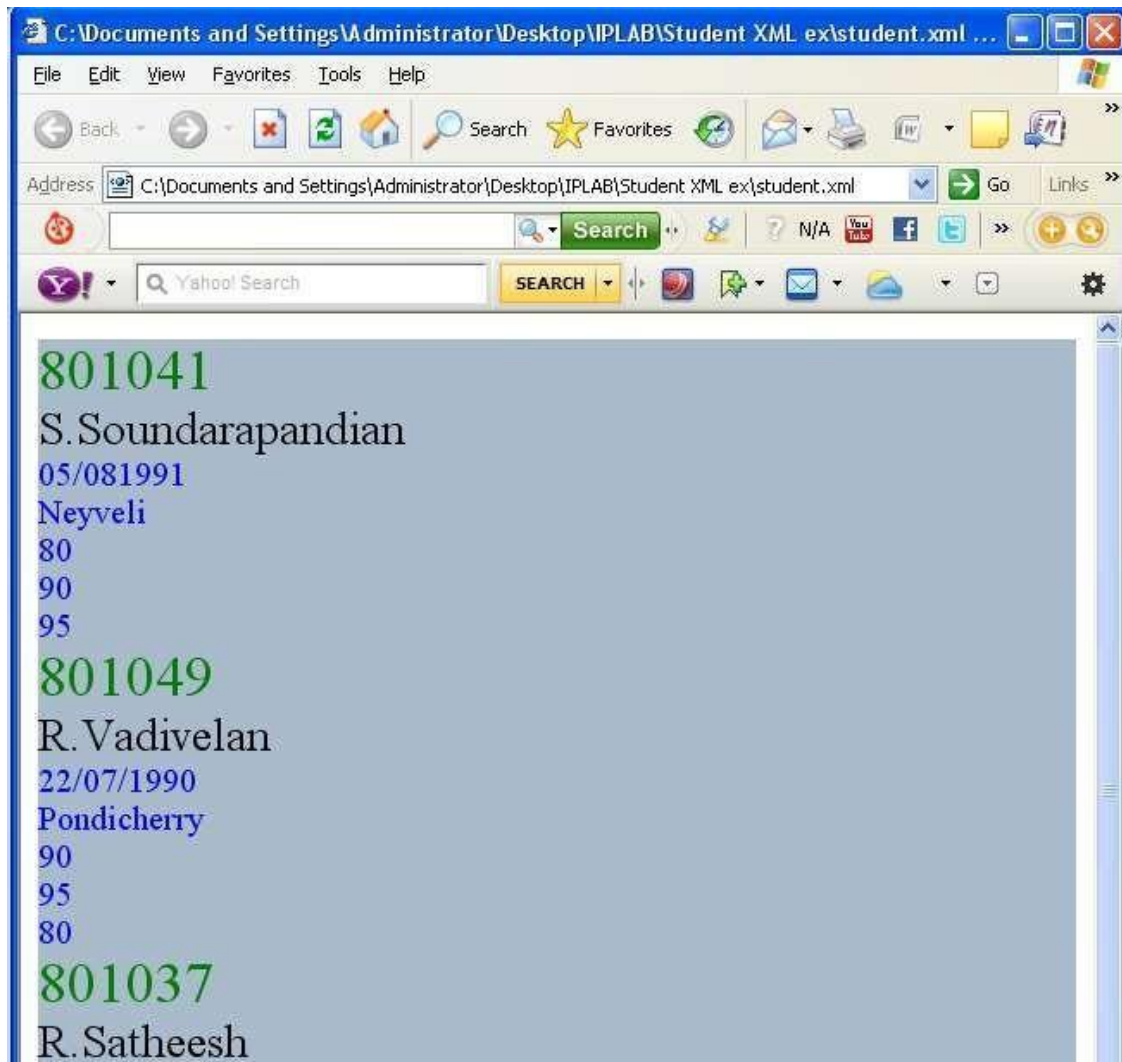
```

#### **//student.dtd`**

```

<?xml version="1.0"?>
<!ELEMENT students (student+)>
<!ELEMENT student (sno,sname,dob,address,m1,m2,m3)>
<!ELEMENT sno (#PCDATA)>
<!ELEMENT sname (#PCDATA)>
<!ELEMENT dob (#PCDATA)>
<!ELEMENT address (#PCDATA)>
<!ELEMENT m1 (#PCDATA)>
<!ELEMENT m2 (#PCDATA)>
<!ELEMENT m3 (#PCDATA)>

```

**OUTPUT:****RESULT:**

Thus the creation of XSL document using Xml has been verified successfully.

<b>Ex No : 8a</b>	<b>XML - DOM PARSING</b>
<b>Date:</b>	

**AIM:**

To write a program for implementing student information XML document and check whether it is well formed or not using DOM.

**ALGORITHM:**

Step 1: In java program, import the necessary package and declare the class parsing-DOM demo.

Step 2: In main function display: enter the name of the XML document and get the input from the buffer reader object.

Step 3: Then create a file object and assign to buffered reader value.

Step 4: If the input source is filename, then it is well formed otherwise it is not well formed.

Step 5: In XML program create the student information and the java file and display the output.

**PROGRAM:**

**//DOMCountEle.java**

```
import org.w3c.dom.*;
import javax.xml.parsers.*;
import java.io.*;
public class DOMCountEle
{
    public static void main(String[] args)
    {
        try
        {
```

```

BufferedReader bf=new BufferedReader(new InputStreamReader(System.in));
System.out.print("Enter File name: ");
String xmlfile=bf.readLine();
File file=new File(xmlfile);
if(file.exists())
{
    DocumentBuilderFactory factory=DocumentBuilderFactory.newInstance();
    //create the Builder and parse the file
    Document doc=factory.newDocumentBuilder().parse(xmlfile);
    System.out.print("Enter the Element Name: ");
    String element=bf.readLine();
    NodeList nodes=doc.getElementsByTagName(element); System.out.println("XML
    Document Contains "+nodes.getLength()+"Elements.");
}
else
{
    System.out.println("File Not Found!");
}
}
catch(Exception ex)
{
    System.out.println(ex);
}
}
}

```

### **//employee-deals.xml**

```

<?xml version="1.0"?>
<Employee-Detail>
<Employee>
<Emp-Id>801041</Emp-Id>
<Emp-Name>S.Soundarapandian</Emp-Name>
<Emp-E-mail>s.soundarapandian@hotmail.com</Emp-E-mail>
</Employee>
<Employee>
<Emp-Id>801049</Emp-Id>
<Emp-Name>R.Vadivelan</Emp-Name>
<Emp-E-mail>vadivelanvrs@gmail.com</Emp-E-mail>
</Employee>
<Employee>
<Emp-Id>801037</Emp-Id>
<Emp-Name>R.Satheesh</Emp-Name>
<Emp-E-mail>satheeshcse37@gmail.com</Emp-E-mail>
</Employee>

```

</Employee-Detail>

**OUTPUT:**

Enter the File name: employee-detail.xml  
Enter the Element name: Emp-Id  
XML Document Contains 3 Elements

**RESULT:**

Thus the creation of program using DOM has been verified successfully.

---

<b>Ex No : 8b</b>	<b>SAX PARSING</b>
<b>Date:</b>	

**AIM:**

To write a program for student information XML document is well-formed or not using SAX.

**ALGORITHM:**

Step 1: In java program, input the necessary packages and declare the classname as parsing- SAXDEMO.

Step 2: In the main function display the “Enter the XML document name” manage and get the buffered reader object.

Step 3: A new file is created and it exists then it is well formed, otherwise its not wellformed.

Step 4: Else file is not passed message will be displayed.

Step 5: In XML document create the student information.

**PROGRAM:**

**//SAX.java**

```
import java.io.*;
import org.xml.sax.*;
import org.xml.sax.helpers.*;

public class SAX
{
    public static void main(String[] args) throws IOException
    {
        try
        {
```

```
System.out.println("Enter the Name of XML Document");
BufferedReader input=new BufferedReader(new InputStreamReader (System.in));
String filename=input.readLine();
File fp=new File(filename);
if(fp.exists())
{
try
{
XMLReader reader=XMLReaderFactory.createXMLReader();
reader.parse(filename);
System.out.println(filename +"is Well-Formed.");
}
catch(Exception e)
{
System.out.println(filename +"is not Well-Formed.");
System.exit(0);
}
}
else
{
System.out.println(filename +" File is not Present! ");
}
}
catch(IOException ex)
{
ex.printStackTrace();
}
}
```

**OUTPUT:**

```
Enter the name of XML Document
employee-detail.xml
employee-detail.xml is well-Formed
```

**RESULT:**

Thus developing a document using SAX has been successfully completed.

<b>Ex No : 9</b>	<b>PROGRAMS USING AJAX</b>
<b>Date:</b>	

**AIM:**

To write a program using AJAX.

**ALGORITHM:**

Step 1: Create an XHTML document (AjaxDemo.html) with the following:

- i. Insert some images.
- ii. Call the function getContent() with respect to the onmouseover event.
- iii. Call the function clearContent() with respect to the onmouseout event.

Step 2: Within this XHTML document, insert AJAX based JavaScript.

- i. Create the object for ActiveXObject
- ii. Create the object for XMLHttpRequest
- iii. AJAX send the request with the use of send() and open() methods.
- iv. The response is obtained with the use of responseTextProperty.

Step 3: AJAX call the function displayProfile() with respect to the event onreadystatechange.

Step 4: Run the program

**PROGRAM:**



Ajaxdemo.html

```

<html> <head> <title>Ajax Demo...</title>
<style type="text/css"> .box{border:1px solid blue;padding:10px} </style>
<script type="text/javascript">
var req;

function getContent(url)
{
    if(window.ActiveXObject)
        req=new ActiveXObject("Microsoft.XMLHTTP");
    else if(window.XMLHttpRequest)
        req=new XMLHttpRequest();
    req.onreadystatechange=displayProfile;
    req.open('POST',url,true);

    req.send(null);
}

function displayProfile()
{
    if(req.readyState==4)
        document.getElementById('contentArea').innerHTML=req.responseText;
}

function clearContent()
{
    document.getElementById('contentArea').innerHTML="";
}

</script> </head> <body bgcolor="cyan">

<h1>Mouse over the image for More Information</h1>















<div class="box" id="contentArea"/> </body> </html>

```

sachin.html

```

<html> <body> <b>Full name:</b> Sachin Ramesh Tendulkar<br/><br/>
<b>Born:</b> April 24, 1973, Bombay (now Mumbai), Maharashtra<br/><br/>
<b>Major teams:</b> India, Asia XI, Mumbai, Mumbai Indians, Yorkshire<br/><br/>
<b>Nickname:</b> Tendlya, Little Master<br/><br/>
<b>Playing role:</b> Top-order batsman<br/><br/>
<b>Batting style:</b> Right-hand bat<br/><br/>
<b>Bowling style:</b> Right-arm offbreak, Legbreak googly </body></html>

```

dravid.html

```

<html> <body> <b>Full name:</b> Rahul Sharad Dravid<br/><br/>
<b>Born:</b> January 11, 1973, Indore, Madhya Pradesh <br/><br/>
<b>Major teams:</b> India, Scotland, Asia XI, ICC World XI, Karnataka, Kent,
Marylebone Cricket Club, Rajasthan Royals, Royal Challengers Bangalore<br/><br/>
<b>Nickname:</b> The Wall<br/><br/> <b>Playing role:</b> Top-order batsman<br/><br/>
<b>Batting style:</b> Right-hand bat<br/><br/> <b>Bowling style:</b> Right-arm offbreak
</body> </html>

```

kohli.html

```

<html> <body> <b>Full name:</b> Virat Kohli<br/><br/>
<b>Born:</b>November 5, 1988, Delhi<br/><br/>
<b>Major teams:</b>India, Delhi, India Red, India Under-19s, Royal Challengers Bangalore<br/><br/>
<b>Playing role:</b>Middle-order batsman<br/><br/>
<b>Batting style:</b>Right-hand bat<br/><br/> <b>Bowling style:</b>Right-arm medium
</body> </html>

```

raina.html

```

<html> <body> <b>Full name:</b> Suresh Kumar Raina<br/><br/>
<b>Born:</b>November 27, 1986, Muradnagar, Ghaziabad, Uttar Pradesh<br/><br/>
<b>Major teams:</b>India, Chennai Super Kings, India Blue, India Under-19s, Indian Board President's
XI, Rajasthan Cricket Association President's XI, Uttar Pradesh, Uttar Pradesh Under-16s<br/><br/>
<b>Playing role:</b>Middle-order batsman<br/><br/>
<b>Batting style:</b>Left-hand bat<br/><br/> <b>Bowling style:</b> Right-arm offbreak
</body> </html>

```

yuvi.html

```

<html> <body> <b>Full name:</b>Yuvraj Singh<br/><br/>
<b>Born:</b>December 12, 1981, Chandigarh<br/><br/>
<b>Major teams:</b>India, Asia XI, Kings XI Punjab, Pune Warriors, Punjab, Yorkshire<br/><br/>
<b>Playing role:</b>Middle-order batsman<br/><br/>
<b>Batting style:</b>Left-hand bat<br/><br/> <b>Bowling style:</b>Slow left-arm orthodox
</body> </html>

```

veeru.html

```

<html> <body> <b>Full name:</b>Virender Sehwag<br/><br/>
<b>Born:</b>October 20, 1978, Delhi<br/><br/>
<b>Major teams:</b>India, Asia XI, Delhi, Delhi Daredevils, ICC World XI, India Blue, Leicestershire,
Rajasthan Cricket Association President's XI<br/><br/>
<b>Playing role:</b>Top-order batsman<br/><br/>
<b>Batting style:</b>Right-hand bat<br/><br/>
<b>Bowling style:</b>Right-arm offbreak </body> </html>

```

dhoni.html

```
<html> <body bgcolor="cyan"> <b>Full name:</b> Mahendra Singh Dhoni<br/><br/>
<b>Born:</b>July 7, 1981, Ranchi, Bihar (now Jharkhand)<br/><br/>
<b>Major teams:</b>India, Asia XI, Bihar, Chennai Super Kings, Jharkhand<br/><br/>
<b>Playing role:</b>Wicketkeeper batsman<br/><br/>
<b>Batting style:</b>Right-hand bat<br/><br/>
<b>Bowling style:</b>Right-arm medium </body> </html>
```

## OUTPUT



## RESULT

Thus the program of displaying cricket players information using Ajax is successfully executed and the output is verified.

<b>Ex No : 10</b>	<b>AIRLINE SERVICE AND TRAVEL AGENT USING WEB SERVICES AND DATABASE</b>
<b>Date:</b>	

**AIM:**

To write a program for airline service and travel agent using web services and database.

**ALGORITHM:**

Step 1: Create a database using Ms Access for travel agency

Step 2: Create JSP for different airlines:

- Airline.jsp
- Kingfisher.jsp and
- SpiceJet.jsp

Step 3: Execute the application

**PROGRAM:**

**Database used: MS Access**

**index.jsp**

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Travel Agency</title>
</head>
<body>
<center><h1>Travel Easy</h1>
<h3> - A Smarter way to travel</h3>
<br><br>
```

```
<b> Enter your Details</b>
<form name="index" action="AirlineList.jsp" method="post">
  <br>
  <table cellpadding="6" cellspacing="6">
    <tr>
      <td><b>From</b></td>
      <td><input type="text" name="txt_from"></td>
    </tr>
    <tr>
      <td><b>To</b></td>
      <td><input type="text" name="txt_to"></td>
    </tr>
    <tr>
      <td><b>Date of Journey</b></td>
      <td><input type="text" name="txt_depart"></td>
    </tr>
    <tr>
      <td><b>Number of Passengers</b></td>
      <td><input type="text" name="txt_no"></td>
    </tr>
    <tr>
      <td><b>Type of Flight</b></td>
      <td><input type="Radio" name="group1" value="domestic">Domestic Flights</td>
    </tr>
    <tr>
      <td></td>
      <td><input type="Radio" name="group1" value="international">International Flights</td>
    </tr>
    <tr>
      <td><b>Select desired Airlines</b></td>
      <td>
        <select name="airline">
          <option>Kingfisher</option>
          <option>SpiceJet</option>
        </select>
      </td>
    </tr>
  </table>
  <br><br>
  <input type="Submit" name="Submit" value="Find Flights">
</form>

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

**airlinelist.jsp**

```

<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Domestic Flights</title>
</head>
<body>
<center><h1>Travel Easy</h1>
<h3> - A Smarter way to travel</h3>
</center>
<br><br>
<% @ page language="java" %>
<% @ page import ="java.sql.*" %>
<% @ page import ="java.util.Date,java.text.SimpleDateFormat,java.text.ParseException"%>
<%
String type = request.getParameter("group1");
String from= request.getParameter("txt_from");
String to = request.getParameter("txt_to");
String depart= request.getParameter("txt_depart");
String ret = request.getParameter("txt_return");
String no = request.getParameter("txt_no");
String airline = request.getParameter("airline");
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
String sTable = type;
String sSql = "SELECT * FROM " sTable " WHERE From='" from "' and TO='" to "' and DepartDate='"
depart "' and SeatCapacity>=" no "'";
String sDBQ = "d:/" airline ".mdb";

String database = "jdbc:odbc:Driver={Microsoft Access Driver
(*.mdb)};DBQ=" sDBQ ";DriverID=22;READONLY=true";
Connection cn = null;
Statement st = null;
ResultSet rs = null;
try {
cn = DriverManager.getConnection( database ,"" , "");
st = cn.createStatement();
rs = st.executeQuery( sSql );
ResultSetMetaData rsmd = rs.getMetaData();
String s1,s2,s3,s4,s5,s6,s7,s8;
int i=1;
String flight_no[] = new String[100];
//out.println("<form name='AirLine' action=" method='post'><b>" i " .
" rs.getString(1) "</b><br><br>");
out.println("<h3><b>" airline " Flights</b></h3><br>");

```

```

        out.println("<table cellpadding=20 cellspacing=15>");
        out.println("<tr><th>Flight No</th><th>From</th><th>To</th><th>Departure Date</th><th>Arrival
Date</th><th>Start Time</th>");
        out.println("<th>Reach Time</th><th>Seats Remaining</th></tr>");
        while(rs.next())
        {
            s1 = rs.getString(1);
            flight_no[i] = s1;
            s2 = rs.getString(2);
            s3 = rs.getString(3);
            s4 = rs.getString(4);
            s5 = rs.getString(5);
            s6 = rs.getString(6);
            s7 = rs.getString(7);
            s8 = rs.getString(8);
            out.println("<tr><td>" s1 "</td>");
            out.println("<td>" s2 "</td>");
            out.println("<td>" s3 "</td>");
            out.println("<td>" s4 "</td>");
            out.println("<td>" s5 "</td>");
            out.println("<td>" s6 "</td>");
            out.println("<td>" s7 "</td>");
            out.println("<td>" s8 "</td></tr>");
            i ;
        }
        out.println("</table>");
        if(i==1)
        {
            out.println("<br><center><b>Sorry!! No flights scheudle available</b></center><br>");
        }
        else
        {
            out.println("<form name='AirlineList' action='\" airline \".jsp' method='post'>");
            out.println("<br><table><tr><td>Select Flight</td><td>");
            out.println("<select name='flight_no'>");
            for(int temp=1;temp<i;temp )
            {
                out.println("<option>" flight_no[temp] "</option>");
            }
            out.println("</select></td></tr><tr></tr>");
            out.println("<tr><td><input type='hidden' name='no' value='\" no '\"</td>");
            out.println("<td><input type='hidden' name='air_type' value='\" type '\"</td></tr>");
            for(int j=1;j<=Integer.parseInt(no);j )
            {
                out.println("<tr><th>Passenger " j " details</th></tr>");
                out.println("<tr></tr>");
                out.println("<tr><td>Name</td><td><input type='text' name='pas" j " '_name'</td></tr>");
                out.println("<tr><td>Age</td><td><input type='text' name='pas" j " '_age'</td></tr>");
                out.println("<tr><td>Sex</td><td><input type='text' name='pas" j " '_sex'</td></tr>");
            }
        }
    
```



```

        out.println("<tr></tr>");
    }
    out.println("</table><br><br><input type='Submit' name='Submit' value='Book Now'/></form>");
}
//out.println("<input name ='submit' value='Submit' type='submit'/>");
}
finally {
    try { if( null != rs ) rs.close(); } catch( Exception ex ) {}
    try { if( null != st ) st.close(); } catch( Exception ex ) {}
    try { if( null != cn ) cn.close(); } catch( Exception ex ) {}
}

%>
</body>
</html>

```

### Kingfisher.jsp

```

<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Kingfisher Airlines</title>
</head>
<body>
    <% @ page language="java" %>
    <% @ page import ="java.sql.*" %>
    <%
        String s = request.getParameter("no");
        out.println("<h1><center>Kingfisher Airlines</h1><br><h3>- Have a nice trip!!!</h3></center><br>");
        out.println("<br><br>Your Booking Details");
        out.println("<br><br><table cellpadding=10 cellspacing=10>");
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        String sTable = request.getParameter("air_type");
        String sSql = "SELECT * FROM " + sTable + " WHERE FlightNo=" + request.getParameter("flight_no") + "";
        String sDBQ = "d:/kingfisher.mdb";

        String database = "jdbc:odbc:Driver={Microsoft Access Driver
(*.mdb)};DBQ=" + sDBQ + ";DriverID=22;READONLY=true";
        Connection cn = null;
        Statement st = null;
        ResultSet rs = null;
        String name,age,sex,flightno,from,to,departure,arrival,starttime,reachtime,seat;
        out.println("<tr><th>Name</th><th>Age</th><th>Sex</th><th>Flight
No</th><th>From</th><th>To</th><th>Departure Date</th><th>Arrival Date</th><th>Start Time</th><th>Reach

```

```

Time</th><th>Seat No</th></tr>");
    try
    {
        cn = DriverManager.getConnection( database ,"" ,"" );
        st = cn.createStatement();
        rs = st.executeQuery( sSql );
        ResultSetMetaData rsmd = rs.getMetaData();
        int seat1=1;
        while(rs.next())
        {
            flightno = rs.getString(1);
            from = rs.getString(2);
            to = rs.getString(3);
            departure = rs.getString(4);
            arrival = rs.getString(5);
            starttime = rs.getString(6);
            reachtime = rs.getString(7);
            seat = rs.getString(8);
            seat1 = Integer.parseInt(seat);
            for(int i=1;i<=Integer.parseInt(s);i )
            {
                name= request.getParameter("pas" i "_name");
                age = request.getParameter("pas" i "_age");
                sex = request.getParameter("pas" i "_sex");
                flightno = request.getParameter("flight_no");

                out.println("<tr><td>" name "</td><td>" age "</td><td>" sex "</td>");
                out.println("<td>" flightno "</td><td>" from "</td><td>" to "</td><td>" departure "</td>");
                out.println("<td>" arrival "</td><td>" starttime "</td><td>" reachtime "</td><td>" seat1 "</td>");
                seat1--;
            }

        }
        Connection cn1 = null;
        Statement st1 = null;
        ResultSet rs1 = null;
    try
    {
        sSql = "update " sTable " set SeatCapacity=" seat1 " WHERE FlightNo="
request.getParameter("flight_no") """;
        rs1 = st.executeQuery( sSql );
    }
    catch(Exception e)
    {
    }

    }
    finally {
        try { if( null != rs ) rs.close(); } catch( Exception ex ) { }

```

```

        try { if( null != st ) st.close(); } catch( Exception ex ) { }
        try { if( null != cn ) cn.close(); } catch( Exception ex ) { }
    }
    %>
</body>
</html>

```

### SpiceJet.jsp

```

<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>SpiceJet Airlines</title>
</head>
<body>
    <% @ page language="java" %>
    <% @ page import ="java.sql.*" %>
    <%
        String s = request.getParameter("no");
        out.println("<h1><center>SpiceJet Airlines</h1><br><h3>- Have a nice trip!!!</h3></center><br>");
        out.println("<br><br>Your Booking Details");
        out.println("<br><br><table cellpadding=10 cellspacing=10>");
        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        String sTable = request.getParameter("air_type");
        String sSql = "SELECT * FROM " sTable " WHERE FlightNo=" request.getParameter("flight_no") """;
        String sDBQ = "d:/SpiceJet.mdb";

        String database = "jdbc:odbc:Driver={Microsoft Access Driver
(*.mdb)};DBQ=" sDBQ ";DriverID=22;READONLY=true";
        Connection cn = null;
        Statement st = null;
        ResultSet rs = null;
        String name,age,sex,flightno,from,to,departure,arrival,starttime,reachtime,seat;
        out.println("<tr><th>Name</th><th>Age</th><th>Sex</th><th>Flight
No</th><th>From</th><th>To</th><th>Departure Date</th><th>Arrival Date</th><th>Start Time</th><th>Reach
Time</th><th>Seat No</th></tr>");
        try
        {
            cn = DriverManager.getConnection( database , "", "");
            st = cn.createStatement();
            rs = st.executeQuery( sSql );
            ResultSetMetaData rsmd = rs.getMetaData();
            int seat1=1;
            while(rs.next())

```

```

{
    flightno = rs.getString(1);
    from = rs.getString(2);
    to = rs.getString(3);
    departure = rs.getString(4);
    arrival = rs.getString(5);
    starttime = rs.getString(6);
    reachtime = rs.getString(7);
    seat = rs.getString(8);
    seat1 = Integer.parseInt(seat);
    for(int i=1;i<=Integer.parseInt(s);i )
    {
        name= request.getParameter("pas" i "_name");
        age = request.getParameter("pas" i "_age");
        sex = request.getParameter("pas" i "_sex");
        flightno = request.getParameter("flight_no");

        out.println("<tr><td>" name "</td><td>" age "</td><td>" sex "</td>");
        out.println("<td>" flightno "</td><td>" from "</td><td>" to "</td><td>" departure "</td>");

        out.println("<td>" arrival "</td><td>" starttime "</td><td>" reachtime "</td><td>" seat1 "</td>");
        seat1--;
    }

}

Connection cn1 = null;
Statement st1 = null;
ResultSet rs1 = null;
try
{
    sSql = "update " sTable " set SeatCapacity=" seat1 " WHERE FlightNo="
request.getParameter("flight_no") """;
    rs1 = st.executeQuery( sSql );
}
catch(Exception e)
{
}

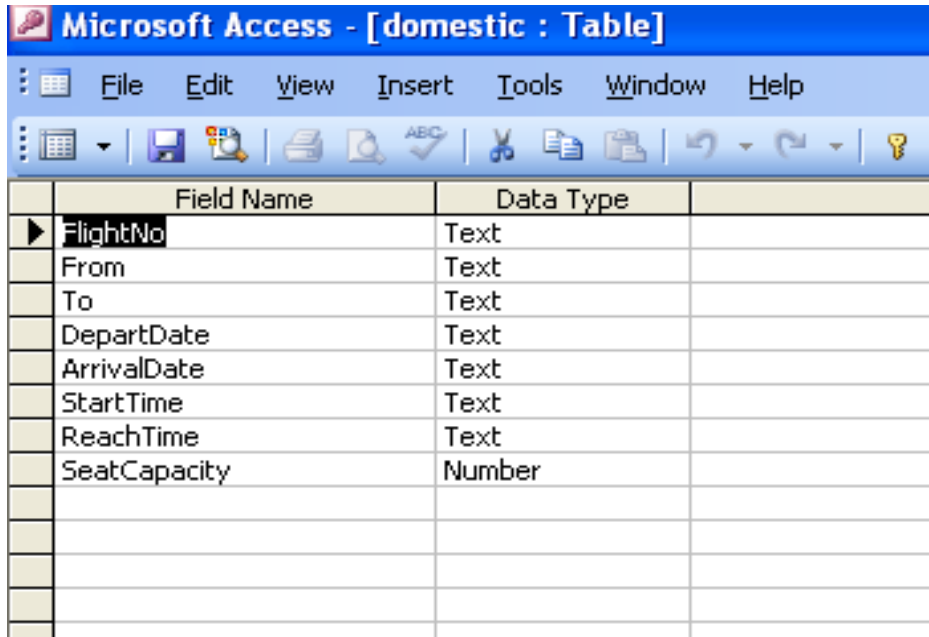
}
finally {
    try { if( null != rs ) rs.close(); } catch( Exception ex ) {}
    try { if( null != st ) st.close(); } catch( Exception ex ) {}
    try { if( null != cn ) cn.close(); } catch( Exception ex ) {}
}

%>
</body>
</html>

```

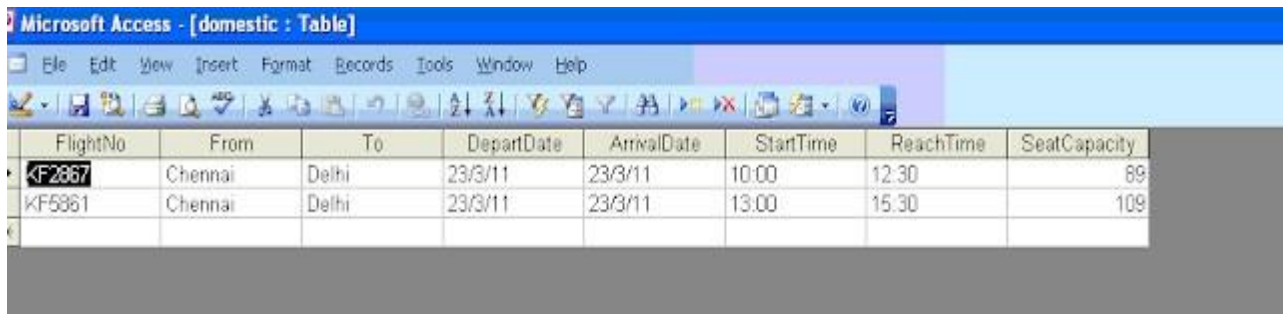
## Screenshots

### Database



Microsoft Access - [domestic : Table]

Field Name	Data Type
FlightNo	Text
From	Text
To	Text
DepartDate	Text
ArrivalDate	Text
StartTime	Text
ReachTime	Text
SeatCapacity	Number



Microsoft Access - [domestic : Table]

FlightNo	From	To	DepartDate	ArrivalDate	StartTime	ReachTime	SeatCapacity
KF2867	Chennai	Delhi	23/3/11	23/3/11	10:00	12:30	89
KF5861	Chennai	Delhi	23/3/11	23/3/11	13:00	15:30	109

## OUTPUT

### index.jsp

**Travel Easy**  
- A Smarter way to travel

Enter your Details

From:

To:

Date of Journey:

Number of Passengers:

Type of Flight: ☒ Domestic Flights ☐ International Flights

Select desired Airlines:

### airlinelist.jsp

**Travel Easy**  
- A Smarter way to travel

**Kingfisher Flights**

Flight No	From	To	Departure Date	Arrival Date	Start Time	Reach Time	Seats Remaining
KF2867	Chennai	Delhi	23/3/11	23/3/11	10:00	12:30	88
KF5861	Chennai	Delhi	23/3/11	23/3/11	13:00	15:30	106

Select Flight:

**Passenger 1 details**

Name:

Age:

Sex:

**Kingfisher.jsp****RESULT:**

Thus the airline application was implemented using Web services and Database.