



KCG

COLLEGE OF TECHNOLOGY

LABORATORY MANUAL

for

IT8511 : WEB TECHNOLOGY LABORATORY

of

B.TECH (IT)

(Anna University Regulation 2017)

For the Batch 2018-2022

Semester: V

Academic Year:2020-2021

DEPARTMENT OF INFORMATION TECHNOLOGY

KCG COLLEGE OF TECHNOLOGY,

CHENNAI – 600 097

CERTIFICATE

This is to certify that **Muzammil Sait A**, roll number/ register number(311018205028) of **third** year (**V** Semester) **B.TECH IT** has successfully completed all the lab exercises in **IT8511 – WEB TECHNOLOGY LABORATORY** for the academic year **2019-2020** in the Odd Semester.

CS6512 INTERNET PROGRAMMING LAB

LIST OF EXPERIMENTS

1. Create a web page with the following using HTML
 - i) To embed an image map in a web page
 - ii) To fix the hot spots
 - iii) Show all the related information when the hot spots are clicked.
2. Create a web page with all types of Cascading style sheets.
3. Client Side Scripts for Validating Web Form Controls using DHTML
4. Write programs in Java to create applets incorporating the following features:
5. Create a color palette with matrix of buttons Set background and foreground of the control text area by selecting a color from color palette. In order to select Foreground or background use check box control as radio buttons To set background images
6. Write programs in Java using Servlets:
 - To invoke servlets from HTML forms
 - To invoke servlets from Applets
7. Write programs in Java to create three-tier applications using JSP and Databases for conducting on-line examination for displaying student mark list. Assume that student information is available in database which has been stored in a database server.
8. Programs using XML – Schema – XSLT/XSL
9. Programs using AJAX
10. Consider a case where we have two web Services- an airline service and a travel agent and the travel agent is searching for an airline. Implement this scenario using Web Services and Data base.

Ex. No: 1

DATE:

IMAGE MAPPING

AIM:

To write a map and fix the hotspots to show the information of it in a web page.

ALGORITHM:

1. Start the program.
2. Get the india map image and link it to the package.

3. Fix the hotspots in that image.
4. Map the reference of the hotspots in the image.
 <area shape="circle" coords="274,745,20" href="tn.html">
5. Mention the derived link.
6. Click the link to get the desired image.
7. Stop the program.

SOURCE CODE:

Main.html

```
<html>
<head>
<BODY bgcolor="#gop6876c gdt5564ss">
<img src = "indiamap.jpeg" usemap="indiamap" />
<map name=indiamap>
<AREA SHAPE="rect" COORDS="190,477,251,562" HREF="tamilnadu.html"
target="tamilnadu.html" >
<AREA SHAPE="rect" COORDS="158,477,195,564" HREF="kerala.html"
target="kerala.html" >
<AREA SHAPE="rect" COORDS="217,378,238,472,350,361" HREF="andhra.html"
target="andhra.html" >
<AREA SHAPE="rect" COORDS="160,474,212,401,189,436" HREF="karnataka.html"
target="karnataka.html" >
<AREA SHAPE="rect" COORDS="137,382,219,311,129,331" HREF="maharashtra.html"
target="maharashtra.html" >
<AREA SHAPE="rect" COORDS="392,319,334,304,309,362," HREF="orissa.html"
target="orissa.html" >
<AREA SHAPE="rect" COORDS="232,244,238,306,168,283" HREF="madhayapradesh.html"
target="madhayapradesh.html" >
</map>
</head>
</html>
```

Tamiladu.html

```
<html>
<head>
<body bgcolor="#fggbhjgdhg"/>
<center><h2>it is a tamilnadu,here maximum tamilan living and capital of tamilnadu is
</h2><h1>chennai<h1></center>
</head>
</html>
```

Kerala.html

```
<html>
<head>
<body bgcolor="#7674dshddf"/>
<center>it is a kerala,here maximum malaiyalees living and capital of kerala is
<h1>Thiruvananthapuram</h1></center>
</head>
</html>
```

Karataka.html

```
<html>
<head>
<body bgcolor="#7674dshddf"/>
<center>it is a karnataka,here maximum kannadam living and capital of karnataka is
<h1>Bangalore</h1></center>
</head>
</html>
```

Madhyapradesh.html

```
<html>
<head>
<body bgcolor="blue"/>
<center>it is a madhyapradesh,here maximum maratiyam living and capital of madhyapradesh
is <h1>BHOPAL</h1></center>
</head>
</html>
```

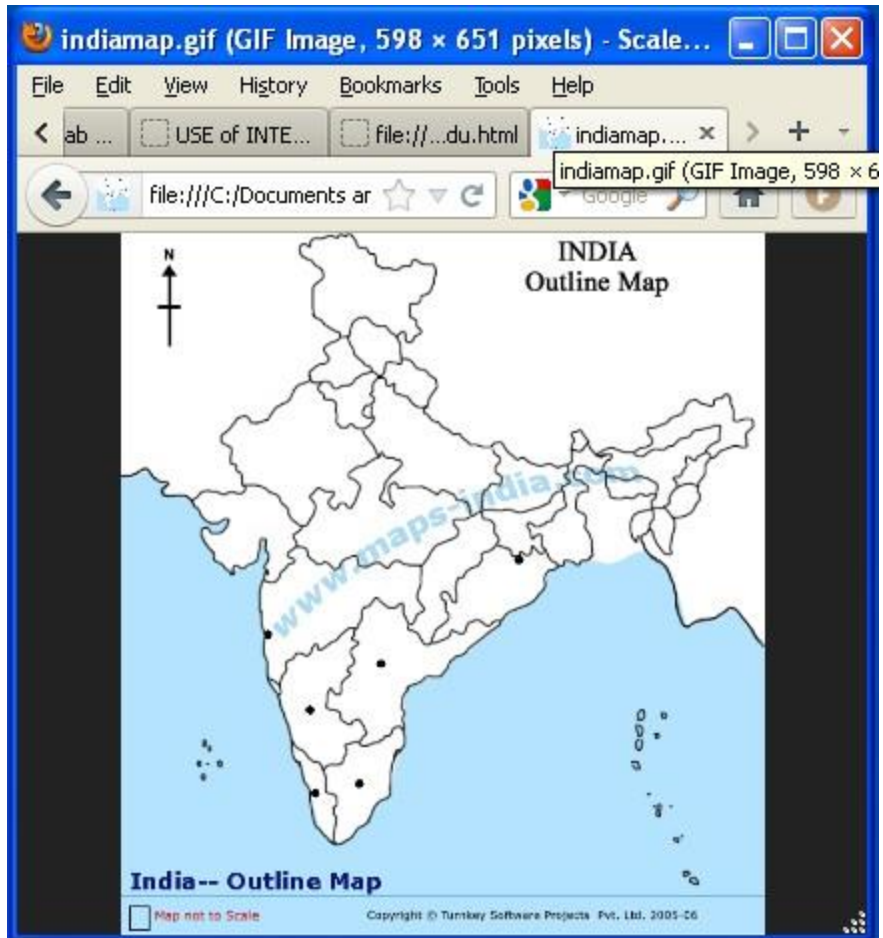
Maharastra.html

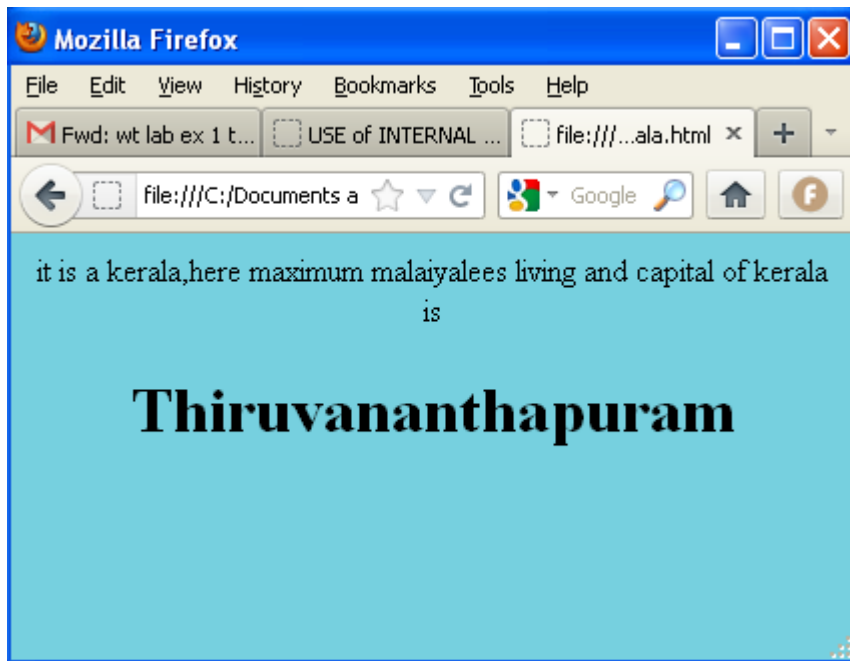
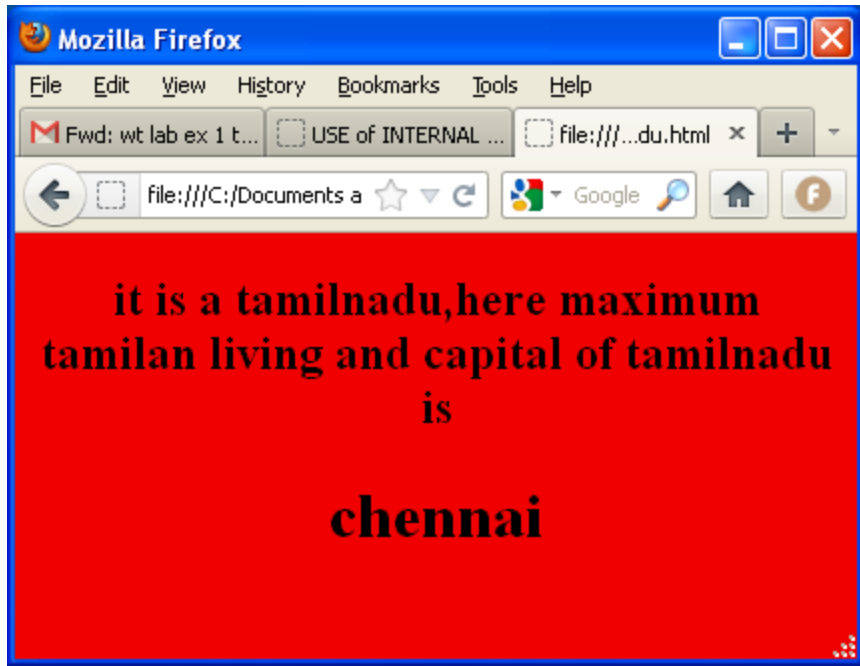
```
<html>
<head>
<body bgcolor="blue"/>
<center>it is a maharashtra,here maximum maratiyam living and capital of maharashtra is
<h1>Mumbai</h1></center>
</head>
</html>
```

Orissa.html

```
<html>
<head>
<body bgcolor="blue">
<center><h2>it is a orissa,here maximum oreya living and capital of orissa is</h2>
<h1>Bhubaneswar</h1></center></head></html>
```

Output:





RESULT:

Thus the web page is created and the image is embedded with hot spot and the linking ages successfully, and the output is verified.

Ex. No: 2

DATE:

STYLE SHEET

AIM:

To write a webpage that displays college information using various style sheet.

ALGORITHM:

1. Start the program.
2. Create a web page with framesets consisting two frames.
3. In the first frame include the links.
4. In the second frameset display the webpage of the link.
5. Create a external style sheets.
6. Create a inline and internal style and make a link to the external style sheet.
7. Stop the program.

SOURCE CODE:

```
<html>
<head>
<title>Cascading Style Sheets</title>
</head>
<body alink="blue" vlink="brown">
<h1><u><b><font face="Monotype corsiva" color="red">
Different types of Cascading Style Sheets</font> </b></u></h1>
<br />
<font face="Arial"size="6">
<a href ="inline.html" style="text-decoration :none;"> 1. Inline Style Sheet</a><br />
<a href ="embedded.html" style="text-decoration :none;"> 2. Embedded Style
Sheet</a><br />
<a href ="external.html" style="text-decoration :none;"> 3. External Style
Sheet</a><br />
<a href ="import.html" style="text-decoration :none;"> 4. Imported Style
Sheet</a><br /></font>
</body>
</html>
```

Inline.html

```
<html>
<head>
<title>Inline Style Sheet</title>
</head>
<body>
<ol class="decimal">
<h1 style="font-family :Monotype Corsiva ;background-color:antiquewhite ;"><li>
Inline Style Sheet</li></h1>
<h3>
<p style="text-indent :30pt;color:blue;font-family :arial;">
```


Inline Style is the style attached to one specific element.

The style is specified directly in the start tag as a value of the style attribute well apply exclusively to this specific element occurrence.

```
</p></h3>
</ol>
</body>
</html>
```

Embedded.html

```
<html>
<head>
<title>Embedded Style Sheet</title>
<style type="text/css">
ol{list-style-type:decimal}
h1{ text-align: left; background:antiquewhite;font-family:monotype corsiva;color:red}
h3{ text-align: right; font-family:arial;color:blue}
</style>
</head>
<body>
<ol class="lroman"><h1>
<li>Embedded style sheet</li></h1>
<br />
```

Embedded style is the style attached to one specific document.

The information is specified as a content of the style element inside the head element and will apply to the entire documents.

```
</h3></ol>
</body>
</html>
```

External.html

```
<html>
<head>
<title>External Style Sheet</title>
<link rel=Stylesheet href="style1.css" type="text/css" />
</head>
<body>
<h1>1. External Style Sheet</h1><br />
<h3>
```

An external style sheet is a template documents/files containing style info which can be linked with any number of the documents. This is a very convenient way of formatting the entire site as well as restyling it by editing just one file</h3>

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

Import.html

```
<html>
<head><title>Imported Style Sheet</title>
<link rel= stylesheet href="style2.css" type="text/css">
```

</head>

<body>

<h1>1. Imported Style Sheet</h1>

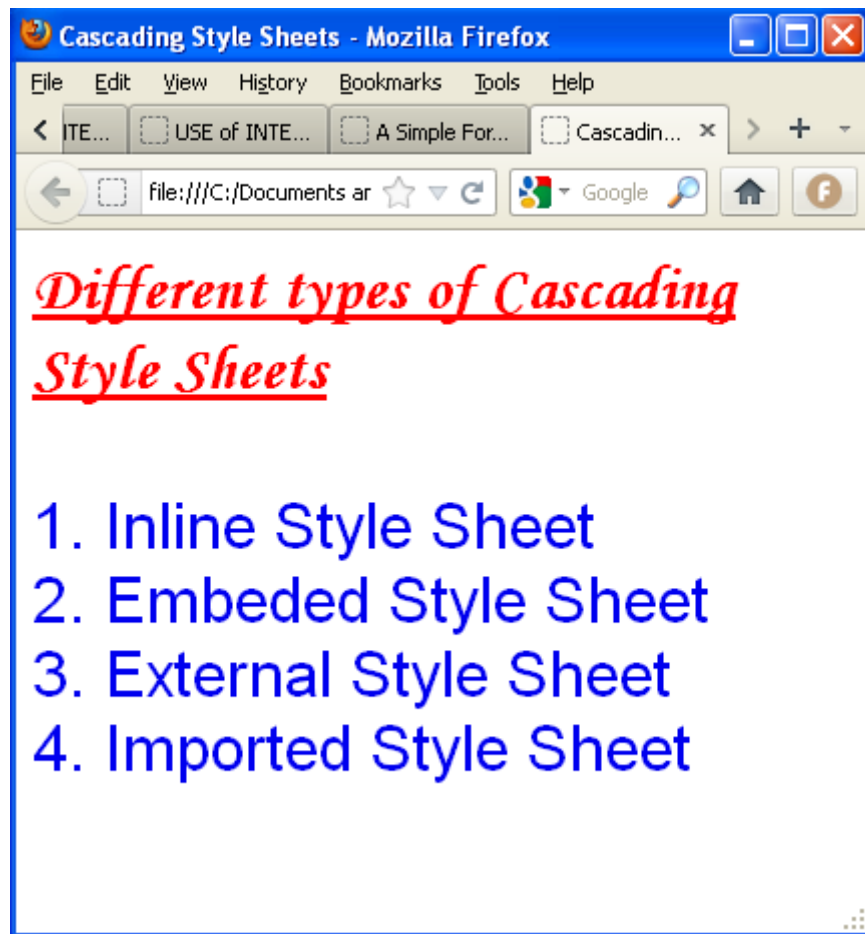
<h3> Imported style sheet is a sheet that can be imported to another sheet.

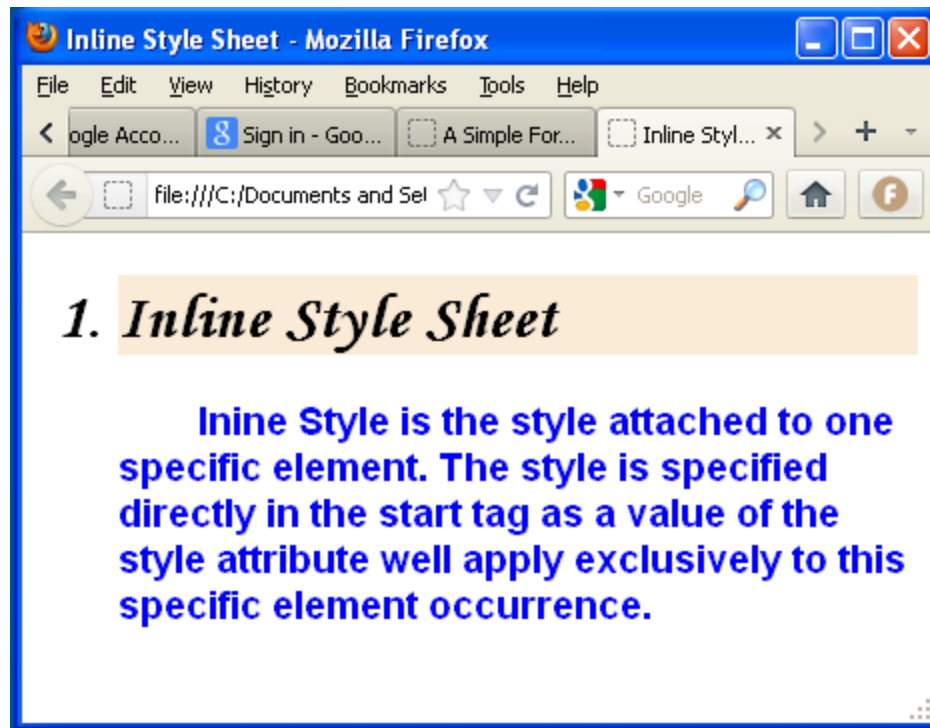
This aligns exactly one main sheet containing declarations that apply to the whole site and partial sheets containing declarations that apply to specific elements.</h3>

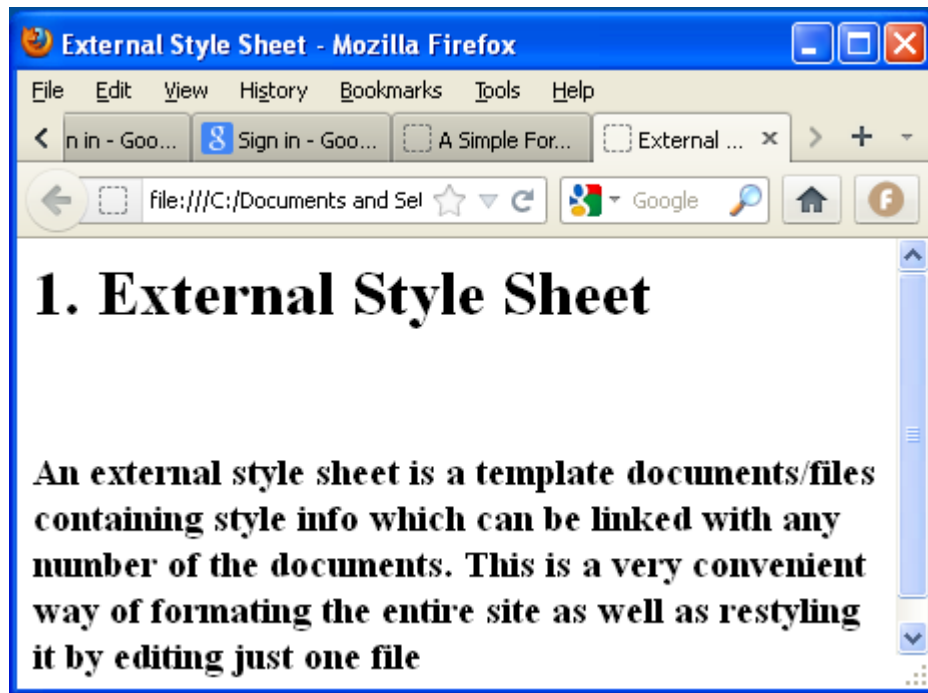
</body>

</html>

Output:







RESULT:

Thus the web page is created using all tyes of cascading style sheets successfully and the output is also verified.

EX. No: 3

DATE:

WEB FORM VALIDATION

AIM:

To write a DHTML code for creating the web page for validating the web form.

ALGORITHM:

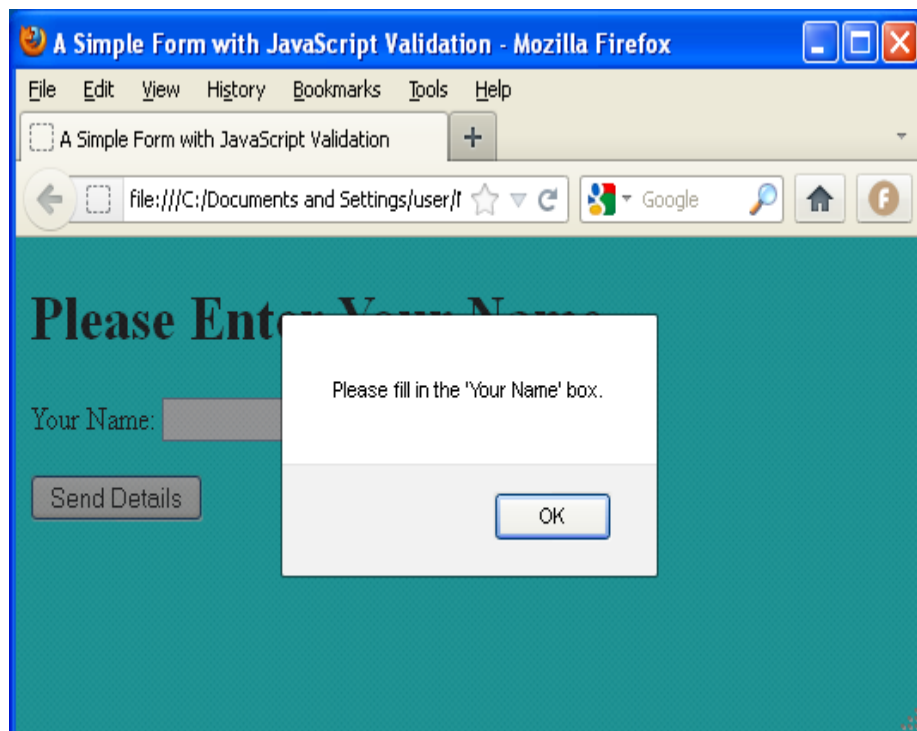
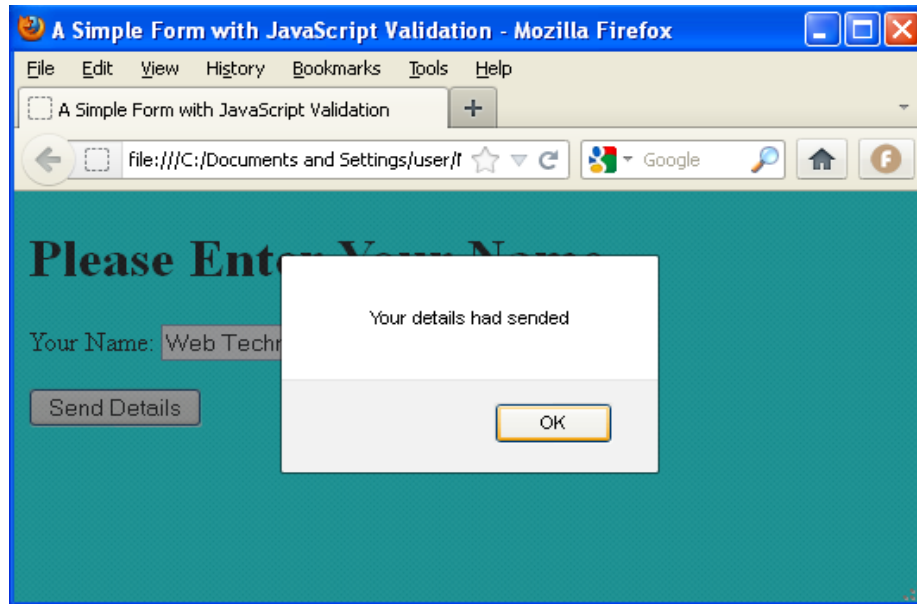
- 1.The form will include one text field called "Your Name", and a submit button.
- 2.Validation script will ensure that the user enters their name before the form is sent to the server.
- 3.Open this page to see it in action.
- 4.Try pressing the **Send Details** button without filling anything in the "Your Name" field.
- 5.You might like to open the source code for this form in a separate window
- 6.The page consists of a JavaScript function called validate_form() that performs the form validation, followed by the form itself.

SOURCE CODE:

```
<html>
<head>
<title>A Simple Form with JavaScript Validation</title>
<script type="text/javascript">
<!--
function validate_form ( )
{
valid = true;
if ( document.contact_form.contact_name.value == "" )
{
alert ( "Please fill in the 'Your Name' box." );
valid = false;
}
if(document.contact_form.contact_name.value)
{
alert("Your details had sended");
valid=true;
}
return valid;
}
//-->
</script>
</head>
<body bgcolor="#FFFFFF">
<form name="contact_form" method="post"
action="css.html"
onSubmit="return validate_form();">
<h1>Please Enter Your Name</h1>
<p>Your Name: <input type="text" name="contact_name"></p>
<p><input type="submit" name="send" value="Send Details"></p>
```

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

OUTPUT:



RESULT:

Thus the program has been written for creating the web page for validating the informations.

Ex.No:4

DATE:

APPLET CREATION

AIM:

To write a java program to create the applets.

ALGORITHMS:

1. Write a HTML applet tag with code set, class name, and comment the tag.
2. Import all necessary packages and classes.
3. Define a class that extends applet and implements action listener and item listener.
4. Declare an array of buttons to set colors , two check boxes for foreground and background colors.
5. Declare a text area to hold the text, a check box group for check boxes.
6. Declare three panels, button panel, palette panel and check pael.
7. Declare a string, color.
8. Display the result.
9. Stop the program.

SOURCE CODE:

```
import javax.swing.*;
```

```
import java.awt.event.*;
```

```
import java.awt.*;
```

```
/*<applet code=colour.class height=200 width=200>
```

```
</applet>*/
```

```
public class colour extends JApplet implements ActionListener
```

```
{
```

```
    JPanel p,p1;
```

```
    JButton b,b1,b2,b3;
```

```
    Checkbox c,c1;
```

```
    TextArea area;
```

```
    Color d=new Color(255,0,0);
```

```
    Color d1=new Color(0,255,0);
```

```
    Color d2=new Color(0,0,255);
```

```
    Color d3=new Color(255,177,76);
```

```
    GridLayout g;
```

```
    public void init()
```

```
    {
```

```
        p=new JPanel();
```

```
        p1=new JPanel();
```

```
        g=new GridLayout(2,2);
```

```
        p1.setLayout(g);
```

```
        b=new JButton();
```

```
        b1=new JButton();
```



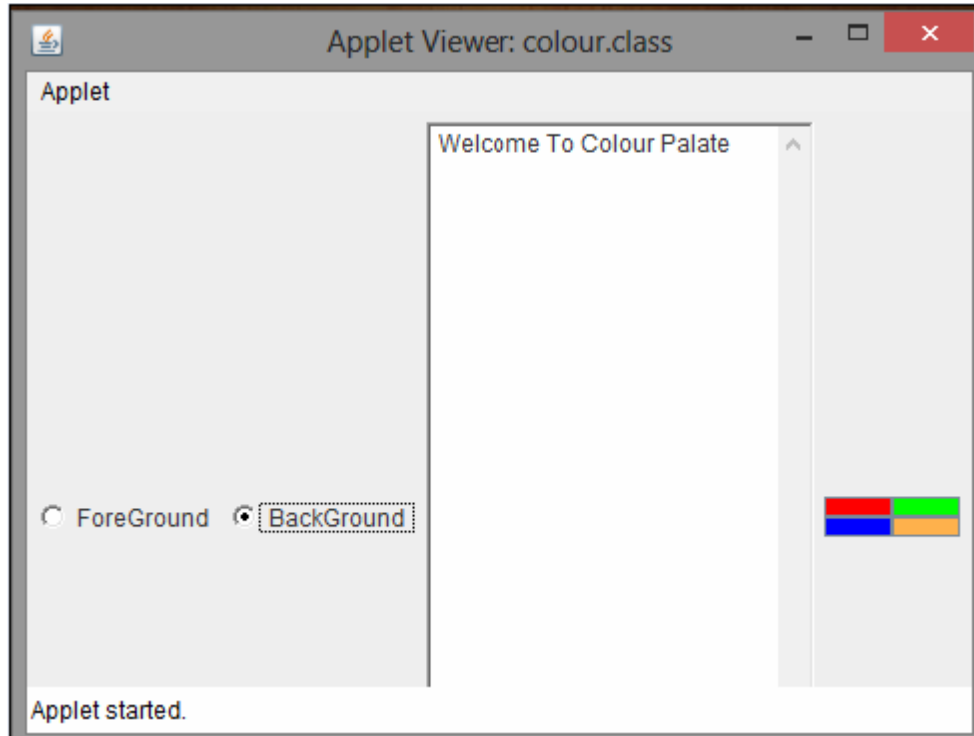
```

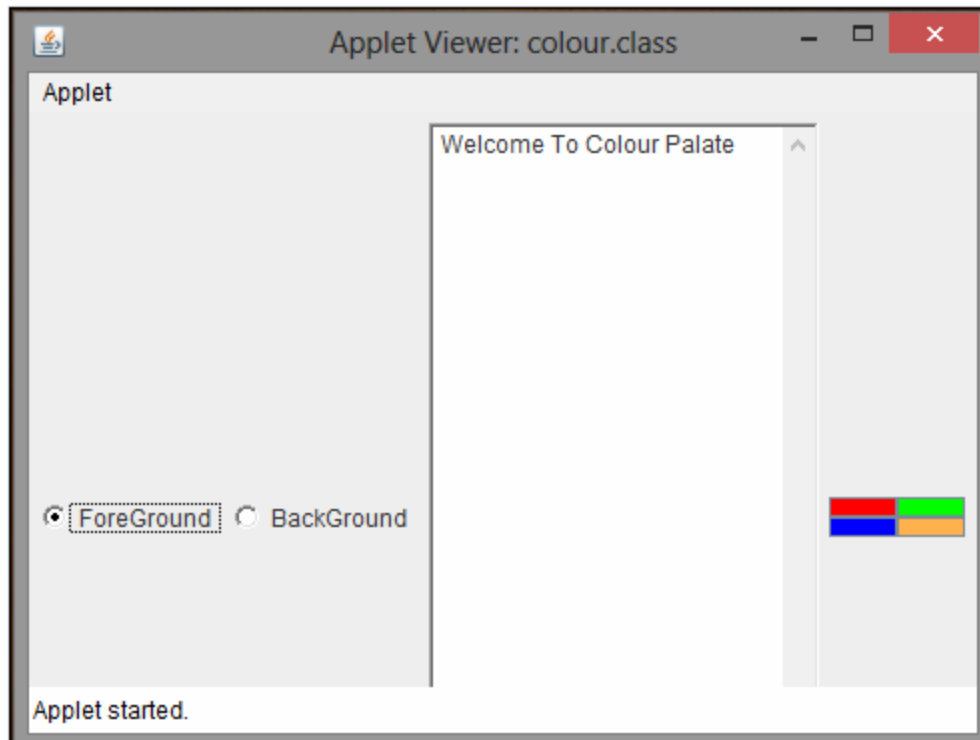
b2=new JButton();
b3=new JButton();
b.setBackground(d);
b1.setBackground(d1);
b2.setBackground(d2);
b3.setBackground(d3);
area=new TextArea(" Welcome To Colour Palate ",25,25);
CheckboxGroup cbg=new CheckboxGroup();
c=new Checkbox(" ForeGround ",cbg,true);
c1=new Checkbox(" BackGround ",cbg,false);
p.add(c);
p.add(c1);
p.add(area);
p1.add(b);
p1.add(b1);
p1.add(b2);
p1.add(b3);
p.add(p1);
getContentPane().add(p);
b.addActionListener(this);
b1.addActionListener(this);
b2.addActionListener(this);
b3.addActionListener(this);
}
public void actionPerformed(ActionEvent e)
{
Object obj=e.getSource();
if(obj==b)
{
if(c.getState()==true)
area.setForeground(d);
else
area.setBackground(d);
}
if(obj==b1)
{
if(c.getState()==true)
area.setForeground(d1);
else
area.setBackground(d1);
}
if(obj==b2)
{
if(c.getState()==true)
area.setForeground(d2);
else

```

```
area.setBackground(d2);  
}  
if(obj==b3)  
{  
if(c.getState()==true)  
area.setForeground(d3);  
else  
area.setBackground(d3);  
}}}
```

OUTPUT:





Ex. No: 5

DATE:

COLOR PALETTE.

AIM:

- To write a java program to create a color palette with the matrix of Buttons.
- Set the background and foreground of the control unit area
- By selecting a color from color palette.
- In order to select foreground (or) background are checkbox
- Control as radio buttons.
- To set background images.

ALGORITHM:

1. Import the package that are necessary to create an palette color.
2. Allocate memory location for buttons and checkbox group by Using new keyword.
3. Set the background and by using the background.
4. Add the component color by using add method.
5. Call the methods for listening the action.
6. The getimage method is used to get the image and displayed Onto the screen.
7. Compile and run the program.

SOURCE CODE:

```
import java.awt.*;
import java.applet.*;
import java.awt.event.*;
/*<Applet code="colorpl" height=600 width=600></applet>*/
public class colorpl extends Applet implements ItemListener
{
    int currcolor=5;
    int flag=1;
    String text="click any of the button";
    Button buttons[]=new Button[5];
    String colors[]={ "red","blue","green","yellow","magenta"};
    Image img;
    CheckboxGroup cbg=new CheckboxGroup();
    Checkbox box1=new Checkbox("Background color",cbg,true);
    Checkbox box2=new Checkbox("Text color",cbg,false);
    Checkbox box3=new Checkbox("Loading Image", cbg, false);
    public void init()
    {
        for(int i=0;i<5;i++)
        {
            buttons[i]=new Button(" ");
            add(buttons[i]);
        }
        buttons[0].setBackground(Color.red);
        buttons[1].setBackground(Color.blue);
```

```

buttons[2].setBackground(Color.green);
buttons[3].setBackground(Color.yellow);
buttons[4].setBackground(Color.magenta);
add(box1);
add(box2);
add(box3);
box1.addItemListener(this);
box2.addItemListener(this);
box3.addItemListener(this);
}
public void itemStateChanged(ItemEvent ie)
{
if(box1.getState()==true)
flag=1;
if(box2.getState()==true)
{
text="default color is Black";
flag=2;
}
if(box3.getState()==true)
{
img=getImage(getDocumentBase(),"jelly.bmp");
flag=3;
}
repaint();
}
public void paint(Graphics g)
{
if(flag==2)
{
g.drawString(text,30,100);
switch(currcolor)
{
case 0:
g.setColor(Color.red);
break;
case 1:
g.setColor(Color.blue);
break;
case 2:
g.setColor(Color.green);
break;
case 3:
g.setColor(Color.yellow);
break;
case 4:

```

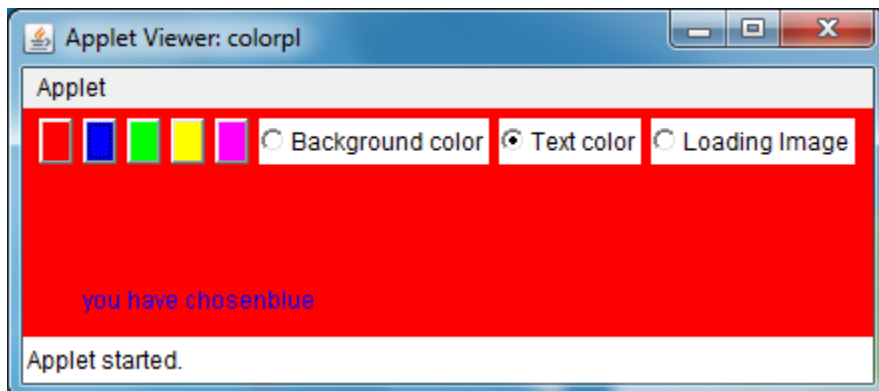
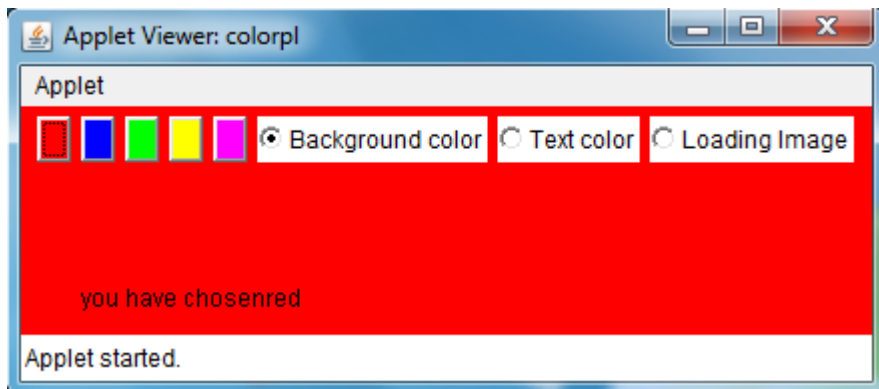
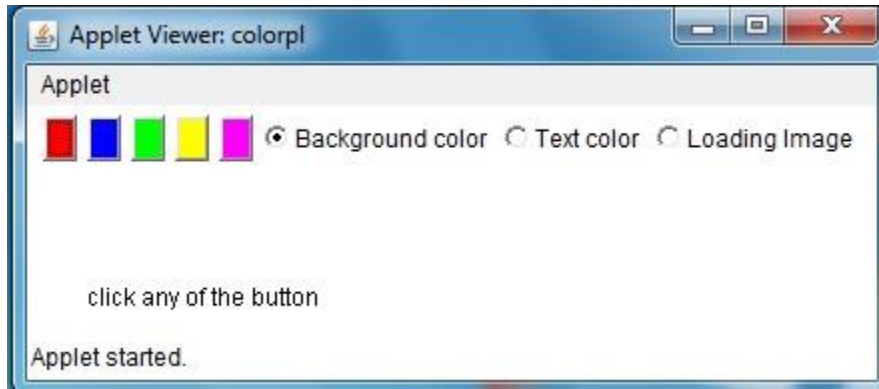
```

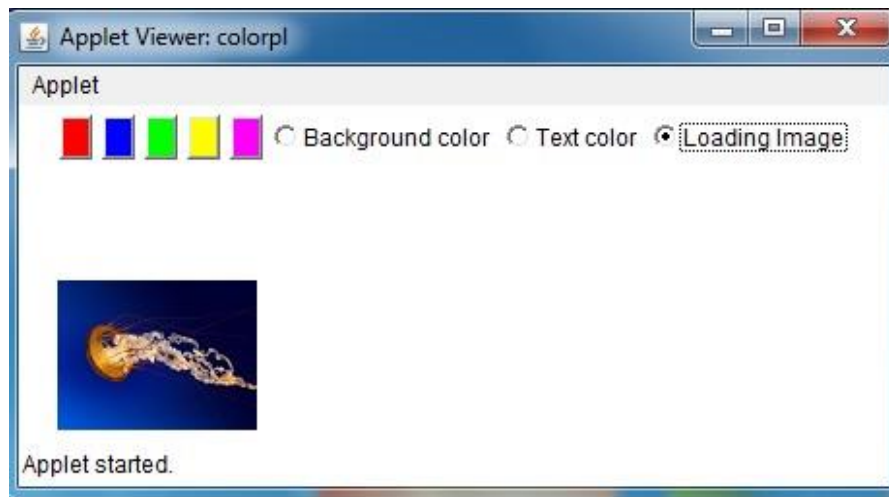
g.setColor(Color.magenta);
break;
case 5:
g.setColor(Color.black);
break;
}
g.drawString(text,30,100);
}
else if(flag==1)
{
g.drawString(text,30,100);
switch(currcolor)
{
case 0:
setBackground(Color.red);
break;
case 1:
setBackground(Color.blue);
break;
case 2:
setBackground(Color.green);
break;
case 3:
setBackground(Color.yellow);
break;
case 4:
setBackground(Color.magenta);
break;
case 5:
setBackground(Color.white);
break;
}
g.drawString(text,30,100);
}
else if(flag==3)
{
g.drawImage(img,20,90,this);
}}
public boolean action(Event e,Object o)
{
for(int i=0;i<5;i++)
{
if(e.target==buttons[i])
{
currcolor=i;
text="you have chosen" +colors[i];

```

```
repaint();  
return true;  
} }  
return false;  
} }
```

OUTPUT:





RESULT:

Thus the java program for color palette was executed and verified.

Ex. No: 6A

DATE:

INVOKING SERVLET FROM HTML FORMS

AIM:

To write a java program for invoking servlet from HTML form.

ALGORITHM:

1. Start the program.
2. Create the form as ResponseDemoServlet with textfield, submit Button and reset button.
3. The class ResponseDemoServlet implements the interface servlet.
4. Create the out object for the PrintWriter class and call the method Getwriter as response.getWriter.
5. Display the server port, server name, protocol, character encoding, content length.
6. Create the class as enumeration with parameters as object.
7. Stop the program.

SOURCE CODE:

Client Page:

```
<HTML>
<HEAD>
<TITLE>Sending a request</TITLE>
</HEAD>
<BODY>
<FORM ACTION= ResponseDemoServlet METHOD="POST">
<BR><BR>
Author: <INPUT TYPE="TEXT" NAME="Author">
<INPUT TYPE="SUBMIT" NAME="Submit">
<INPUT TYPE="RESET" VALUE="Reset">
</FORM>
</BODY>
</HTML>
```

Server Page:

```
import javax.servlet.*;
import java.io.PrintWriter;
import java.io.IOException;
import java.util.Enumeration;

public class ResponseDemoServlet implements Servlet {
    public void init(ServletConfig config) throws ServletException {
    }
    public void destroy() { }
    public void service(ServletRequest request, ServletResponse response)
    throws ServletException, IOException {
        PrintWriter out = response.getWriter();
        out.println("<HTML>");
    }
}
```

```

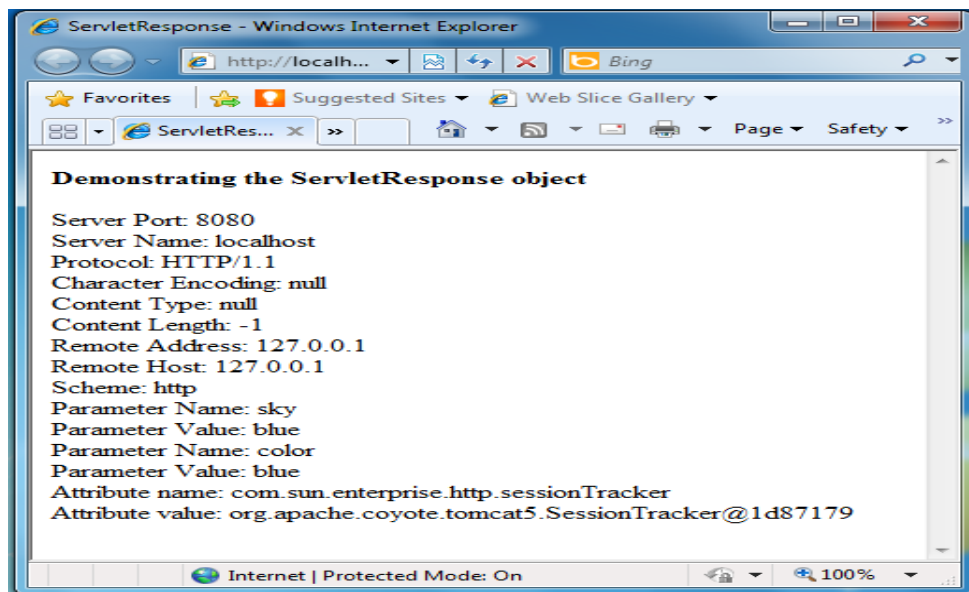
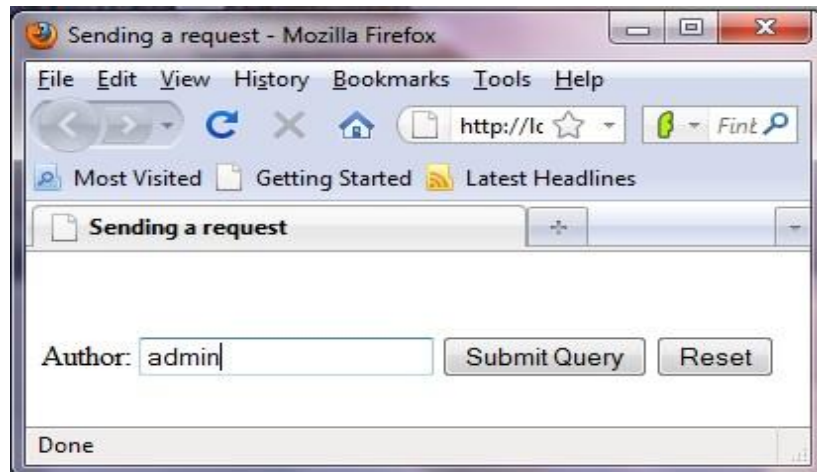
out.println("<HEAD>");
out.println("<TITLE>");
out.println("ServletResponse");
out.println("</TITLE>");
out.println("</HEAD>");
out.println("<BODY>");
out.println("<B>Demonstrating the ServletResponse object</B>");
out.println("<BR>");
out.println("<BR>Server Port: " + request.getServerPort());
out.println("<BR>Server Name: " + request.getServerName());
out.println("<BR>Protocol: " + request.getProtocol());
out.println("<BR>Character Encoding: " + request.getCharacterEncoding());
out.println("<BR>Content Type: " + request.getContentType());
out.println("<BR>Content Length: " + request.getContentLength());
out.println("<BR>Remote Address: " + request.getRemoteAddr());
out.println("<BR>Remote Host: " + request.getRemoteHost());
out.println("<BR>Scheme: " + request.getScheme());
    Enumeration parameters = request.getParameterNames();
while (parameters.hasMoreElements()) {
    String parameterName = (String) parameters.nextElement();
out.println("<br>Parameter Name: " + parameterName);
out.println("<br>Parameter Value: " +
request.getParameter(parameterName));
}
    Enumeration attributes = request.getAttributeNames();
while (attributes.hasMoreElements()) {
    String attribute = (String) attributes.nextElement();
out.println("<BR>Attribute name: " + attribute);
out.println("<BR>Attribute value: " + request.getAttribute(attribute));
}
out.println("</BODY>");
out.println("</HTML>");
}

public String getServletInfo() {
return null;
}

public ServletConfig getServletConfig() {
return null;
}
}

```

OUTPUT:



RESULT:

Thus the program for invoking servlet from HTML form was executed and the output was verified.

INVOKING SERVLET FROM SERVLET FORM**AIM:**

To write a program for invoking servlet from HTML form.

ALGORITHM:

1. Start the program.
2. Create the class as Loginservlet.
3. Enter the username and password in the form.
4. If username and password are correct then the welcome servlet page is opened.
5. Else the message "Loginfailed" will be displayed.
6. RequestDispatcher is used to transfer messages efficiently.
7. Stop the program.

SOURCE CODE:**LOGIN Page:**

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

public class LoginServlet extends HttpServlet {
    private void sendLoginForm(HttpServletResponse response,
        boolean withErrorMessage)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<HTML>");
        out.println("<HEAD>");
        out.println("<TITLE>Login</TITLE>");
        out.println("</HEAD>");
        out.println("<BODY>");
        if (withErrorMessage)
            out.println("Login failed. Please try again.<BR>");
        out.println("<BR>");
        out.println("<BR>Please enter your user name and password.");
        out.println("<BR><FORM METHOD=POST>");
        out.println("<BR>User Name: <INPUT TYPE=TEXT NAME=username>");
        out.println("<BR>Password: <INPUT TYPE=PASSWORD NAME=password>");
        out.println("<BR><INPUT TYPE=SUBMIT VALUE=Submit>");
        out.println("</FORM>");
        out.println("</BODY>");
        out.println("</HTML>");
    }

    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        sendLoginForm(response, false);
    }

    public void doPost(HttpServletRequest request,
```

```

HttpServletResponse response)
throws ServletException, IOException {
    String userName = request.getParameter("userName");
    String password = request.getParameter("password");
    if (userName!=null && password!=null &&
        userName.equals("jamesb") &&password.equals("007")) {
        RequestDispatcher rd = request.getRequestDispatcher("WelcomeServlet");
        rd.forward(request, response);
    } else {
        sendLoginForm(response, true);
    } }

```

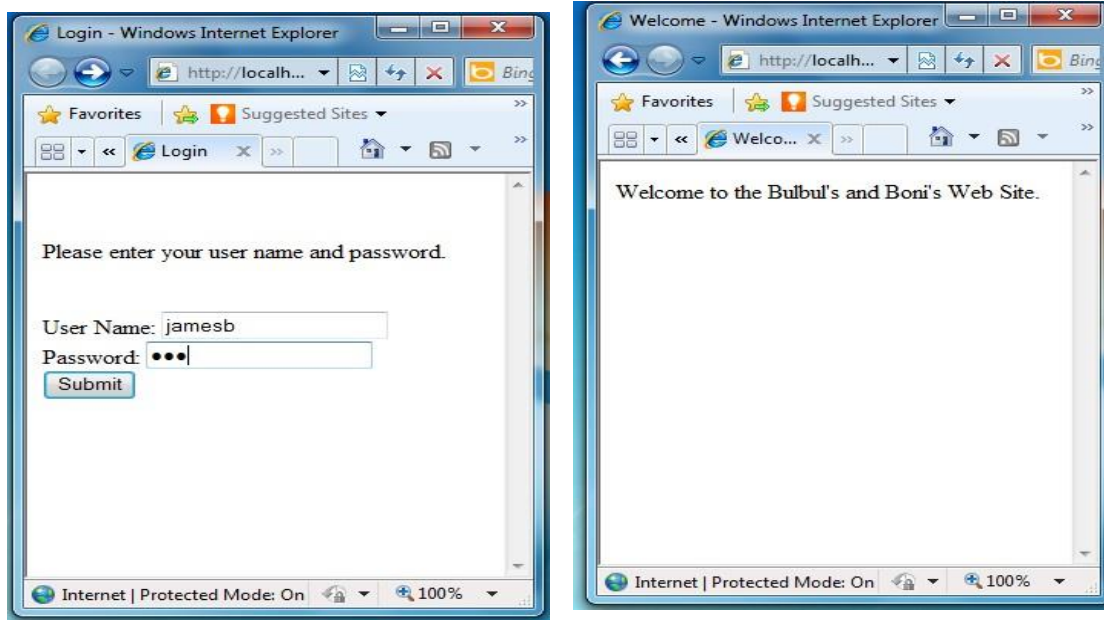
Response Page for Login:

```

import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
public class WelcomeServlet extends HttpServlet {
    public void doPost(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<HTML>");
        out.println("<HEAD>");
        out.println("<TITLE>Welcome</TITLE>");
        out.println("</HEAD>");
        out.println("<BODY>");
        out.println("<P>Welcome to the Bulbul's and Boni's Web Site.</P>");
        out.println("</BODY>");
        out.println("</HTML>");
    }
}

```

OUTPUT:



RESULT:

Thus the program for login page and its response was done successfully and the output was verified.

Ex. No: 7

DATE:

ONLINE EXAMINATION

AIM:

To write the JSP program for online examination.

ALGORITHM:

1. Start the program.
2. With the scriptlet tag, include information like document Created on and author.
3. Set the content type using page content type="text/html".
4. Include the doctype with transitional flavour.
5. Get the input as regno , name and store in the table.
6. Create the forms as exam and index.
7. Click the submit button, after completing all the questions. If the answers are correct it will display as correct else incorrect.
8. Stop the program.

SOURCE CODE:

Newjsp.jsp:

```
<%--
    Document : exam
    Created on : Feb 23, 2011, 7:19:15 PM
    Author    : A
--%>

<% @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>Examination Panel</title>
    </head>
    <body bgcolor="cyan">
        <% @ page language="java" %>
        <% @ page import ="java.sql.*" %>
        <%
String reg= request.getParameter("txt_reg");
String name = request.getParameter("txt_name");
out.println("<h2>Welcome" + name + "...Your Register number is " + reg +
"!!</h2><br><br><br>");
```

```

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
String sTable = "exam";
String sSql = "SELECT * FROM " + sTable + "";
String database = "jdbc:odbc:sDBQ";
Connection cn = null;
Statement st = null;
ResultSet rs = null;
try {
cn = DriverManager.getConnection( database ,"sa","");
st = cn.createStatement();
rs = st.executeQuery( sSql );
ResultSetMetaData rsmd = rs.getMetaData();
String s1,s2,s3,s4;
int i=1;
    while(rs.next())
    {
out.println("<form name='exam' action='newjsp2.jsp' method='post'><b>"+i+" . " +
rs.getString(1) + "</b><br><br>");
s1 = rs.getString(2);
s2 = rs.getString(3);
s3 = rs.getString(4);
s4 = rs.getString(5);
out.println("<input type=radio name=opt"+i+" value="+s1+" CHECKED>"+ s1 +" <br><br>");
out.println("<input type=radio name=opt"+i+" value="+s2+">" + s2 +"<br><br>");
out.println("<input type=radio name=opt"+i+" value="+s3+">" + s3 +"<br><br>");
out.println("<input type=radio name=opt"+i+" value="+s4+">" + s4 +"<br><br>");
i++;
    }
out.println("<input name ='submit' value='Submit' type='submit'/>");
/*int n = rsmd.getColumnCount();
out.println( "<table border=1 cellpadding=3><tr>" );
for( int i=1; i<=n; i++ ) // Achtung: erste Spalte mit 1 statt 0
out.println( "<th>" + rsmd洗getColumnName( i ) + "</th>" );
while( rs.next() )
{ out.println( "</tr><tr>" );
for( int i=1; i<=n; i++ ) // Achtung: erste Spalte mit 1 statt 0
o ut.println( "<td nowrap>" + rs.getString( i ) + "</td>" );
}
out.println( "</tr></table>" );*/
}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>

```


Newjsp1.jsp

```
<%--
    Document : index
    Created on : Feb 9, 2011, 6:50:54 PM
    Author    : A
--%>
<% @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>Welcome to Online Examination</title>
</head>
<body bgcolor="cyan">
    <form name="index" action="newjsp.jsp" method="post">
        <center><h1><span><font color="red">Welcome to Online
Examination</font></span></h1>
        <br>
        <h2><u><span><font color="blue">Instructions to the
Candidates</font></span></u></h2>
        <br><h3><ol><li>Fill the correct Registration number.</li>
        <br><li>Enter your name.</li>
        <br><li>Read the questions carefully.</li>
        <br><li>No negative marking.</li></ol></h3>

        <br>
        <b>Enter your Register number</b>
        <input type="text" name="txt_reg">
        <b>Enter your Name</b>
        <input type="text" name="txt_name"><br><br>
        <input name="submit" value="Submit" type="submit"/>
        </center>
    </form>
</body>
</html>
```

Newjsp2.jsp

```
<%--
    Document : report
    Created on : Feb 23, 2011, 9:09:37 PM
    Author    : A
--%>
<% @page import="com.sun.java.swing.plaf.windows.resources.windows_es"%>
```

```

<% @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>Exam Report</title>
  </head>
  <body bgcolor="cyan">
    <center><h1>Your Report Card</h1></center>
    <% @ page language="java" %>
    <% @ page import ="java.sql.*" %>
    <%
    Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
    String sTable = "exam";
    String sSql = "SELECT * FROM " + sTable + "";
    String database = "jdbc:odbc:sDBQ";
    Connection cn = null;
    Statement st = null;
    ResultSet rs = null;
    try {
    cn = DriverManager.getConnection( database ,"sa","");
    st = cn.createStatement();
    rs = st.executeQuery( sSql );
    ResultSetMetaData rsmd = rs.getMetaData();
    String s1,s2,s3,s4;
    int i=1;
    int correct=0,incorrect=0,total=0;
    out.println("<h2><br><br><center><table border=1 cellpadding=2
    cellspacing=2><tr><th>Question</th><th>Your Answer</th><th>Correct
    Answer</th><th>Status</th></tr>");
    while(rs.next())
    {
    total++;
    s1 = rs.getString(1);
    s2 = request.getParameter("opt"+i);
    s3 = rs.getString(6);
    if(s2.equals(s3))
    {   s4="Correct";
        correct++;
    }
    else
    {   s4="Incorrect";
        incorrect++;
    }
    out.println("<tr><td>" +s1+"</td><td>" +s2+"</td><td>" +s3+"</td><td>" +s4+"</td></tr>");
    }
    }
    
```

```

i++;
}
out.println("</table><br><br><table><b><tr><td>Correct
Answers</td><td>"+correct+"</td></tr>");
out.println("<tr><td>Incorrect Answers</td><td>"+incorrect+"</td></tr>");
out.println("<tr><td>Total
Questions</td><td>"+total+"</td></tr></table></b></center></h2>");
}
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>

```

OUTPUT:

Welcome to Online Examination

Instructions to the Candidates

1. Fill the correct Registration number.
2. Enter your name.
3. Read the questions carefully.
4. No negative marking.

Enter your Register number:

Enter your Name:

Welcomehema...Your Register number is 40108104025!!

1 . what is the capital of india

- ☒ a.chennai
- ☐ b.mumbai
- ☐ c.Delhi
- ☐ d.goa

2 . what is our national flower?

- ☒ a.lotus
- ☐ b.rose
- ☐ c.jasmine
- ☐ d.lily

3 . when india got world cup?

- ☒ a 1983

☐ b. 1993
☐ c. 2006
☐ d. 2011

4. what is our national game?

☐ a. cricket
☐ b. hockey
☐ c. football
☐ d. volleyball

5. What is the captain of Indian cricket team?

☐ a. ya
☐ b. Mahesh
☐ c. vedha
☐ d. Harvi

6. Which Prime Minister has served the longest?

☐ a. Mahatma Gandhi
☐ b. Jawahar Lal Nehru
☐ c. A. B. Vaidya
☐ d. Dr. Manmohan Singh

Submit

Your Report Card

Question	Your Answer	Correct Answer	Status
what is the capital of india	c.Delhi	c.Delhi	Correct
what is our national flower?	a.lotus	a.lotus	Correct
when india got world cup?	a.1983	a.1983	Correct
what is our national game?	b.hockey	b.hockey	Correct
What is the captain of Indian cricket team	ys	Ms.dhoni	Incorrect
Which Prime Minister has served the longest?	Mabatma	Jawahar Lal Nehru	Incorrect

Correct Answers 4

Incorrect Answers 2

Total Questions 6

RESULT:

Thus the JSP program for online examination was executed by connecting the SQLSERVER and result was verified

Ex. No: 8

DATE:

XML – Schema – XSLT/XSL

AIM:

To write a XML scheme to generate CD Collection details

ALGORITHM:

- Step 1: Start the program
- Step 2: Use Xml Style Sheet code to define link
<?xml-stylesheet type="text/xsl" href="yourxsl.xml"?>
- Step 3: Use the catalog tag to define CD collection details.
- Step 4: Use the necessary heading for appropriate XML tag.
- Step 5: Provide necessary information for CD collection details
- Step 6: Stop the program

SOURCE CODE:

Username.xml

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- Edited by XMLSpy® -->
<?xml-stylesheet type="text/xsl" href="yourxsl.xml"?>
<catalog>
  <cd>
    <title>Empire Burlesque</title>
    <artist>Bob Dylan</artist>
    <country>USA</country>
    <company>Columbia</company>
    <price>10.90</price>
    <year>1985</year>
  </cd>
  <cd>
    <title>Hide your heart</title>
    <artist>Bonnie Tyler</artist>
    <country>UK</country>
    <company>CBS Records</company>
    <price>9.90</price>
    <year>1988</year>
  </cd>
  <cd>
    <title>Greatest Hits</title>
    <artist>Dolly Parton</artist>
    <country>USA</country>
    <company>RCA</company>
    <price>9.90</price>
    <year>1982</year>
  </cd>
</cd>
```

<title>Still got the blues</title>
<artist>Gary Moore</artist>
<country>UK</country>
<company>Virgin records</company>
<price>10.20</price>
<year>1990</year>
</cd>

<cd>
<title>Eros</title>
<artist>Eros Ramazzotti</artist>
<country>EU</country>
<company>BMG</company>
<price>9.90</price>
<year>1997</year>
</cd>

<cd>
<title>One night only</title>
<artist>Bee Gees</artist>
<country>UK</country>
<company>Polydor</company>
<price>10.90</price>
<year>1998</year>
</cd>

<cd>
<title>Sylvias Mother</title>
<artist>Dr.Hook</artist>
<country>UK</country>
<company>CBS</company>
<price>8.10</price>
<year>1973</year>
</cd>

<cd>
<title>Maggie May</title>
<artist>Rod Stewart</artist>
<country>UK</country>
<company>Pickwick</company>
<price>8.50</price>
<year>1990</year>
</cd>

<cd>
<title>Romanza</title>
<artist>Andrea Bocelli</artist>
<country>EU</country>
<company>Polydor</company>
<price>10.80</price>
<year>1996</year>

</cd>

<cd>

<title>When a man loves a woman</title>

<artist>Percy Sledge</artist>

<country>USA</country>

<company>Atlantic</company>

<price>8.70</price>

<year>1987</year>

</cd>

<cd>

<title>Black angel</title>

<artist>Savage Rose</artist>

<country>EU</country>

<company>Mega</company>

<price>10.90</price>

<year>1995</year>

</cd>

<cd>

<title>1999 Grammy Nominees</title>

<artist>Many</artist>

<country>USA</country>

<company>Grammy</company>

<price>10.20</price>

<year>1999</year>

</cd>

<cd>

<title>For the good times</title>

<artist>Kenny Rogers</artist>

<country>UK</country>

<company>Mucik Master</company>

<price>8.70</price>

<year>1995</year>

</cd>

<cd>

<title>Big Willie style</title>

<artist>Will Smith</artist>

<country>USA</country>

<company>Columbia</company>

<price>9.90</price>

<year>1997</year>

</cd>

<cd>

<title>Tupelo Honey</title>

<artist>Van Morrison</artist>

<country>UK</country>

<company>Polydor</company>

<price>8.20</price>
<year>1971</year>
</cd>
<cd>
<title>Soulsville</title>
<artist>Jorn Hoel</artist>
<country>Norway</country>
<company>WEA</company>
<price>7.90</price>
<year>1996</year>
</cd>
<cd>
<title>The very best of</title>
<artist>Cat Stevens</artist>
<country>UK</country>
<company>Island</company>
<price>8.90</price>
<year>1990</year>
</cd>
<cd>
<title>Stop</title>
<artist>Sam Brown</artist>
<country>UK</country>
<company>A and M</company>
<price>8.90</price>
<year>1988</year>
</cd>
<cd>
<title>Bridge of Spies</title>
<artist>T`Pau</artist>
<country>UK</country>
<company>Siren</company>
<price>7.90</price>
<year>1987</year>
</cd>
<cd>
<title>Private Dancer</title>
<artist>Tina Turner</artist>
<country>UK</country>
<company>Capitol</company>
<price>8.90</price>
<year>1983</year>
</cd>
<cd>
<title>Midt om natten</title>
<artist>Kim Larsen</artist>

```
<country>EU</country>
<company>Medley</company>
<price>7.80</price>
<year>1983</year>
</cd>
<cd>
<title>Pavarotti Gala Concert</title>
<artist>Luciano Pavarotti</artist>
<country>UK</country>
<company>DECCA</company>
<price>9.90</price>
<year>1991</year>
</cd>
<cd>
<title>The dock of the bay</title>
<artist>Otis Redding</artist>
<country>USA</country>
<company>Atlantic</company>
<price>7.90</price>
<year>1987</year>
</cd>
<cd>
<title>Picture book</title>
<artist>Simply Red</artist>
<country>EU</country>
<company>Elektra</company>
<price>7.20</price>
<year>1985</year>
</cd>
<cd>
<title>Red</title>
<artist>The Communards</artist>
<country>UK</country>
<company>London</company>
<price>7.80</price>
<year>1987</year>
</cd>
<cd>
<title>Unchain my heart</title>
<artist>Joe Cocker</artist>
<country>USA</country>
<company>EMI</company>
<price>8.20</price>
<year>1987</year>
</cd>
</catalog>
```

yourxsl.xml

```
<?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>My CD Collection</h2>
    <table border="1">
      <tr bgcolor="#9acd32">
        <th>Title</th>
        <th>Artist</th>
      </tr>
      <xsl:for-each select="catalog/cd">
        <xsl:sort select="artist"/>
        <tr>
          <td><xsl:value-of select="title"/></td>
          <td><xsl:value-of select="artist"/></td>
        </tr>
      </xsl:for-each>
    </table>
  </body>
</html>
</xsl:template>
</xsl:stylesheet>
```

RESULT:

Thus the XML scheme to generate CD Collection details was executed successfully and verified.

Ex. No 9

DATE:

AJAX.

AIM:

To write a java script program for a AJAX.

ALGORITHM:

1. Start the program.
2. A scripting language that is commonly hosted in a browser to add Interactivity to HTML PAGES.
3. Defines the structure of a webpage as a set of programmable objects that can be accessed through javascript.
4. Allows a client-side script to perform and httprequest.
5. AJAX applications use xmlhttprequest object to perform asynchronous requests to the server as opposed to performing a full page refresh.
6. Display the result.
7. Stop the program.

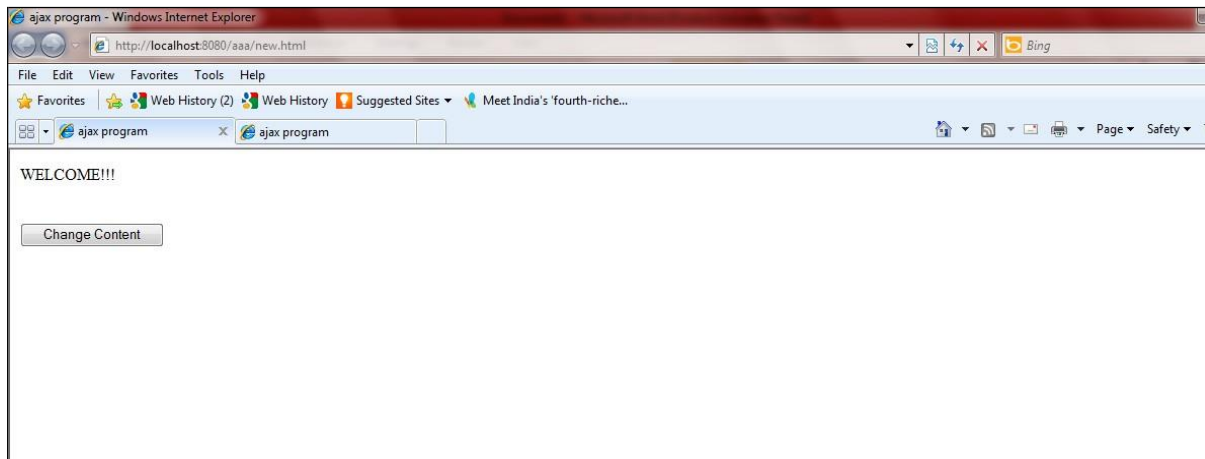
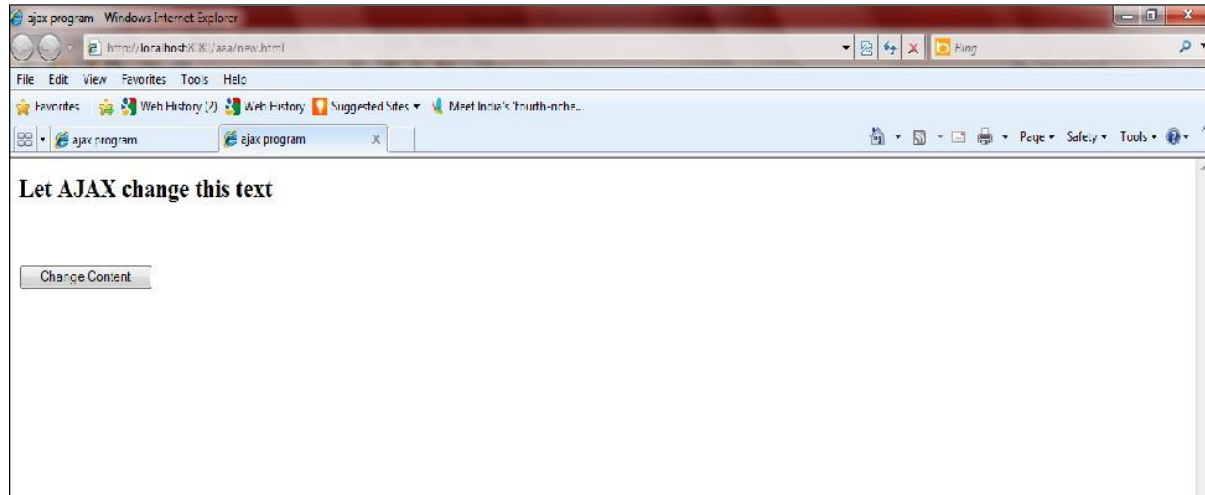
PROGRAM:

```
<html>
<head>
<script type="text/javascript">
functionloadXMLDoc()
{
if (window.XMLHttpRequest)
xmlhttp=new XMLHttpRequest();
else
xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
xmlhttp.onreadystatechange=function()
{
if (xmlhttp.readyState==4 &&xmlhttp.status==200)
{
document.getElementById("myDiv").innerHTML=xmlhttp.responseText;
}
}
xmlhttp.open("GET","new.txt",true);
xmlhttp.send();
}
</script>
<title>ajax program</title>
</head>
<body>
<div id="myDiv"><h2>Let AJAX change this text</h2></div>
<button type="button" onclick="loadXMLDoc()">Change Content</button>
</body>
```

</html>

New.txt:
WELCOME!!!

OUTPUT:



RESULT:
Thus the program for AJAX was executed and the output was verified.

EX.NO: 10

DATE:

IMPLEMENTING AN APPLICATION USING THE WEB SERVICES

AIM:

To implement a application using the web services.

ALGORITHM:

- 1.Start the program
- 2.Create a root rocess for reservation
- 3.Create a service with focus on each item
- 4.Run the program, display the result
- 5.Stop the program.

SOURCE CODE:

```
<?xml version = "1.0"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<!-- Solution11.16 -->
<!-- Airline Reservation System-->
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
<title>Airline Reservation System</title>
<script type = "text/javascript">
<!--
var input;
var secondInput;
var element;
var secondElement;
var firstCount = 0;
var economyCount = 0;
var seats = [ ,0,0,0,0,0,0,0,0,0]; //allocate 10-element Array
function startArray()
{
for(var i=0; i<11; i++)
{
input = window.prompt("Please type 1 for First Class and Please type 2 for Economy.", "0");
if (input == 1 || input == 2)
{
element = linearSearch(seats);
if(element===-1&&input==1)
{
document.writeln("The First Class is already fully
booked<br/>");
secondQuestion(seats);
```

```

}
else if (element == -1 && input == 2)
{
document.writeln("The Economy Class is already fully
booked<br/>");
secondQuestion(seats);
}
else
boarding Pass(input);
}
//to terminate the program
else
{
window.status="Bye-bye!";
System.exit(0);
}
}
}
function linear Search(the Array)
{
if (input == 1)
{
for (var n=0; n<6 ; n++)
if (the Array [n] == 0)
return n;
}
else if (input == 2)
{
for (var n=6; n<11 ; n++)
if (the Array [n] == 0)
return n;
}
return -1;
}
function boarding Pass(the Input)
{
if (input ==1)
{
document.writeln("-----BOARDING PASS -----<br/>");
document.writeln("You are allocated in the First Class<br/>");
document.writeln("Your seat number is "+ element+"<br/>");
document.writeln(" -----<br/>");
seats[element]= 1;
firstCount++;
}
else if (input ==2)

```

```

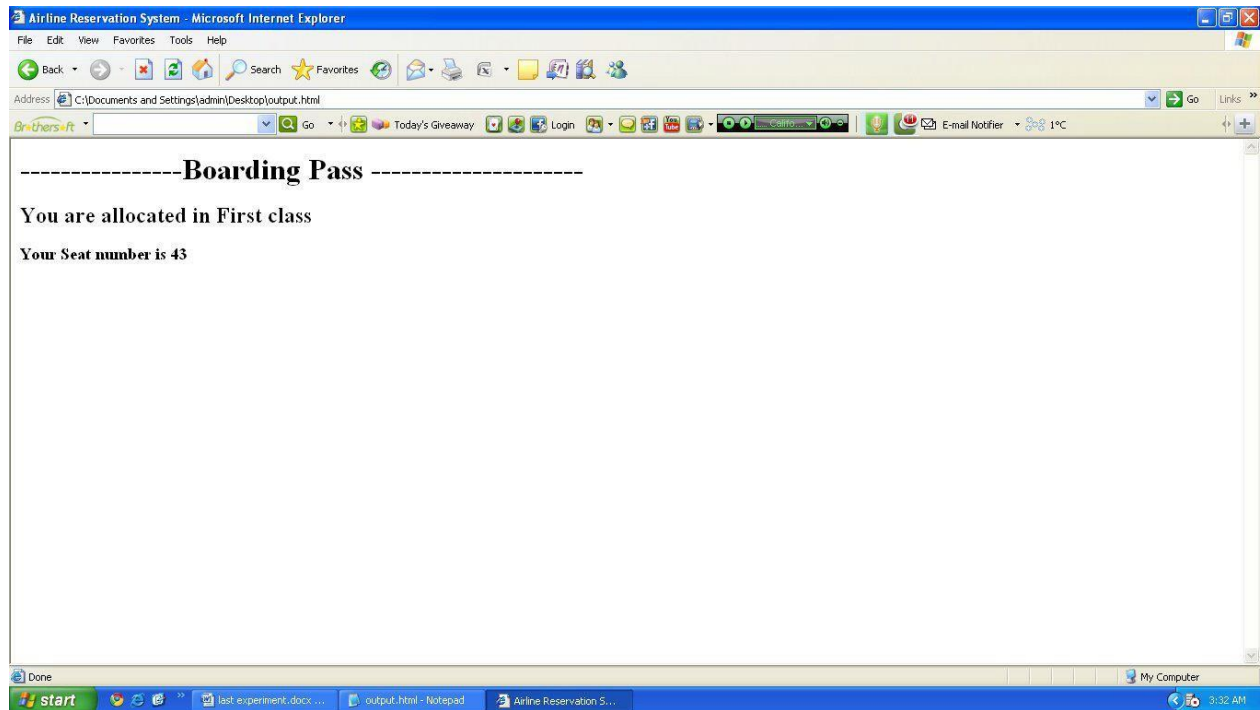
{
document.writeln("-----BOARDING PASS -----<br/>");
document.writeln("You are allocated in the EconomyClass<br/>"); document.writeln("Your
seat
number is "+ element +"<br/>");
document.writeln(" ----- <br/>");
seats[element]= 1;
economyCount++;
}
}
functionsecondQuestion(theArray)
{
if (input == 1)
{
for (var n=6; n<11 ;n++)
{
if (theArray [n] == 0)
{
second Input = window.prompt("Do you want to move to Economy Class?
(If YES, please press 1. If NO, please press 2)","0");
if ( second Input == 1)
{
input = 2;
element=linear Search(seats);
document.writeln("You have been allocated to Economy
Class<br/>");
boardingPass(input);
break;
}
else if (secondInput == 2)
{
document.writeln("Next flight leaves in 3 hours<br/>"); break;
}
}
}
}
else if (input == 2)
{
for (var n=0; n<6 ;n++)
{
if (theArray [n] == 0)
{
secondInput = window.prompt("Do you want to move to First Class? (If YES,
please press 1. If NO, please press 2)","0");
for (var n=0; n<6 ;n++)
{

```



```
if (theArray [n] == 0)
{
secondInput = window.prompt("Do you want to move to First Class? (If YES, please press 1. If
NO, please press 2)","0");
boarding Pass(input); break;
}
else if (secondInput == 2)
{
document.writeln("Next flight leaves in 3 hours<br/>");
break;
}
} }
}
}
//-->
</script>
</head>
<body onload = "startArray()"></body>
</html>
```

OUTPUT:



RESULT:

Thus the program is executed and verified successfully.