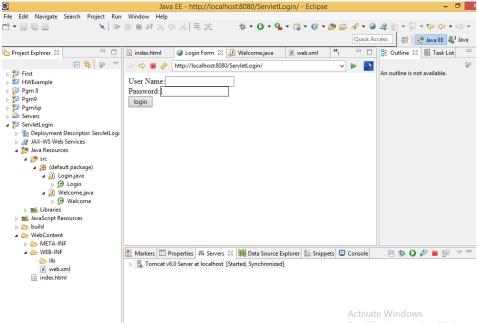
**9.** Write a Java program with Servlets to create a dynamic HTML form to accept and display user name and password with the help of 'get()' and 'post()' methods.

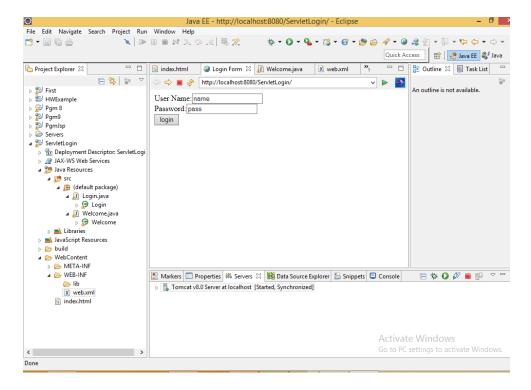
## index.html <!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Login Form</title> </head> <body> <form method="post" action="login"> User Name:<input type="text" name="name" /><br/> Password:<input type="text" name="pass" /><br/> <input type="submit" value="login" /> </form> </body> </html> Login.java import java.io.\*; import javax.servlet.\*; import javax.servlet.http.\*; **import** java.sql.\*; public class Login extends HttpServlet { protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { response.setContentType("text/html;charset=UTF-8"); PrintWriter out = response.getWriter(); String uname = request.getParameter("name"); String upass = request.getParameter("pass"); if(uname.equals("Student") && upass.equals("ise-dsce")){ RequestDispatcher rs = request.getRequestDispatcher("Welcome"); rs.forward(request, response); else out.println("Username or Password incorrect"); RequestDispatcher rs = request.getRequestDispatcher("index.html"); rs.include(request, response); } }

#### Welcome.java

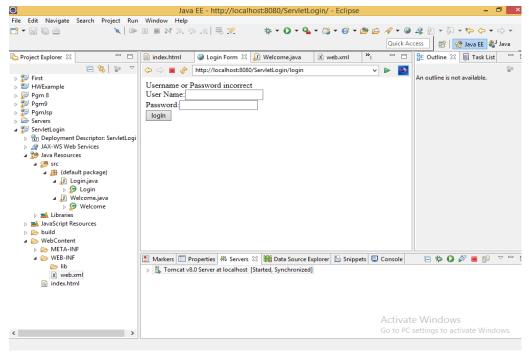
```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
public class Welcome extends HttpServlet {
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    String uname = request.getParameter("name");
    PrintWriter out = response.getWriter();
    out.println("Welcome "+ uname);
}
                                          web.xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-
app_3_1.xsd" id="WebApp_ID" version="3.1">
 <display-name>Servlet Login</display-name>
 <servlet>
    <servlet-name>login</servlet-name>
    <servlet-class>Login</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>Welcome</servlet-name>
    <servlet-class>Welcome</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>login</servlet-name>
    <url-pattern>/login</url-pattern>
  </servlet-mapping>
  <servlet-mapping>
    <servlet-name>Welcome</servlet-name>
    <url-pattern>/Welcome</url-pattern>
  </servlet-mapping>
</web-app>
```



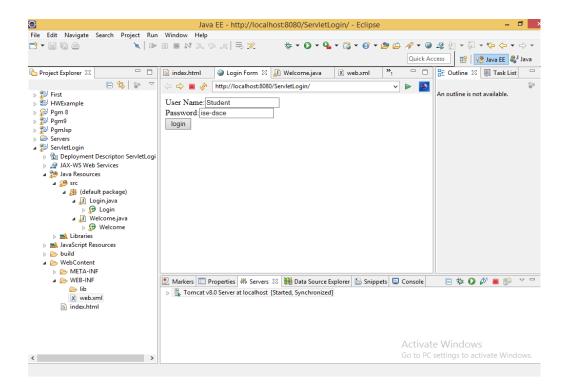
Login Page



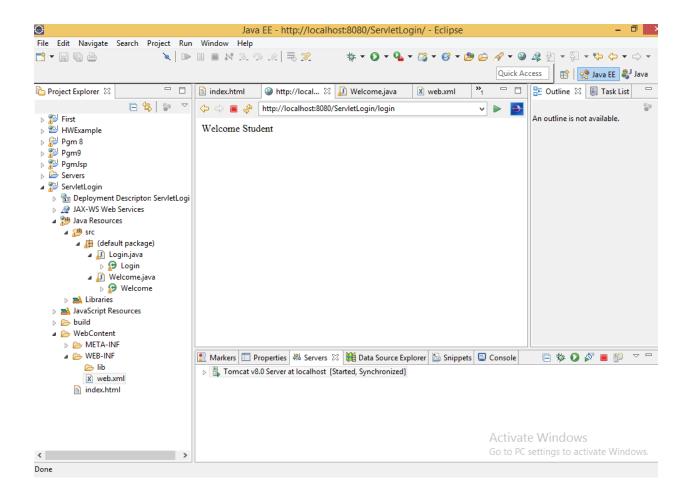
**Incorrect Login Credentials** 



Incorrect Message for Incorrect Login Credentials



Correct Login Credentials



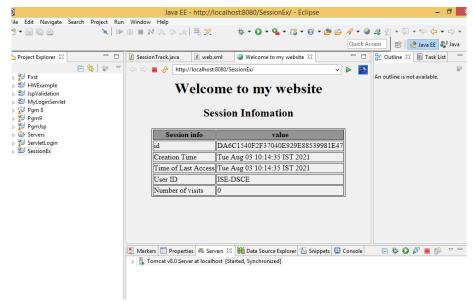
Welcome Message for Correct Login Credentials

10. Write a Java Servlet program to demonstrate session tracking.

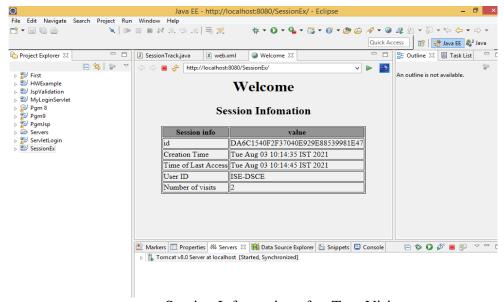
#### SessionTrack.java

```
import java.io.IOException;
import java.io.PrintWriter;
import java.util.Date;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
public class SessionTrack extends HttpServlet {
       protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
              // TODO Auto-generated method stub
              HttpSession session = request.getSession(true);
              Date createTime = new Date(session.getCreationTime());
              Date lastAccessTime = new Date(session.getLastAccessedTime());
              String title = "Welcome";
              Integer visitCount = new Integer(0);
              String visitCountKey = new String("visitCount");
              String userIDKey = new String("userID");
              String userID = new String("ISE-DSCE");
              if (session.isNew()) {
              title = "Welcome to my website";
              session.setAttribute(userIDKey, userID);
              } else {
              visitCount = (Integer)session.getAttribute(visitCountKey);
              visitCount = visitCount + 1;
              userID = (String)session.getAttribute(userIDKey);
              session.setAttribute(visitCountKey, visitCount);
              response.setContentType("text/html");
              PrintWriter out = response.getWriter();
              String docType =
              "<!doctype html public \"-//w3c//dtd html 4.0 " +
              "transitional//en\">\n";
              out.println(docType +
              <html>\n" +
              "<head><title>" + title + "</title></head>\n" +
```

```
"<body bgcolor = \"#f0f0f0\">\n" +
            "<h1 align = \center">" + title + "</h1>\n" +
            "<h2 align = \"center\">Session Infomation</h2>\n" +
            "<table border = \"1\" align = \"center\">\n" +
            " \n" +
            " Session infovalue\n" +
            " id\n" +
            " <td>" + session.getId() + "</td> </tr>\n" +
            "\!\!<\!\!tr\!\!>\!\!\backslash n" \;+\;
            " Creation Time\n" +
            " " + createTime + "  \n" +
            "\n" +
            " Time of Last Access\n" +
            " " + lastAccessTime + "  \n" +
            "\n" +
            " <td>User ID\n" +
            " " + userID + "   \n" +
            "\n" +
            " Number of visits\n" +
            " " + visitCount + " \n" +
            "\n" +
            "</body> </html>"
            );
      }
}
                                    Web.xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-
app_3_1.xsd" id="WebApp_ID" version="3.1">
<welcome-file-list>
  <welcome-file>SessionTrack</welcome-file>
 </welcome-file-list>
```



Session Information for First Visit



Session Information after Two Visits

# 11. Write a JSP program to implement verification of a particular user login and display a welcome page.

#### Welcome.jsp

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title> Welcome Page</title>
</head>
<body>
       <center>
             <%! String id; %>
             <% id=request.getParameter("uname"); %>
             <h1> Welcome <%=id%> </h1>
             <br >
              <h1> to the home page </h1>
      </center>
</body>
</html>
                                        Error.jsp
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body bgcolor = "pink">
       <h1> INVALID User Credentials !! </h1>
</body>
</html>
                                      Validation.jsp
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Validation Page</title>
</head>
<body>
       <%! String uid="ISEStudent"; %>
       <%! String pass="ise-dsce"; %>
       <%! String id, password; %>
```

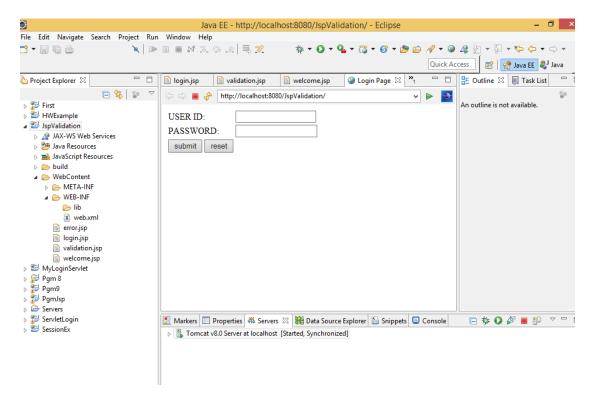
<% id=request.getParameter("uname"); %>

```
<% password=request.getParameter("password"); %>
<% if(uid.equals(id)&&pass.equals(password))
{
%>
<jsp:forward page="welcome.jsp"/>
<%
}
else {
%>
<jsp:forward page="error.jsp"/>
<%
}
%>
```

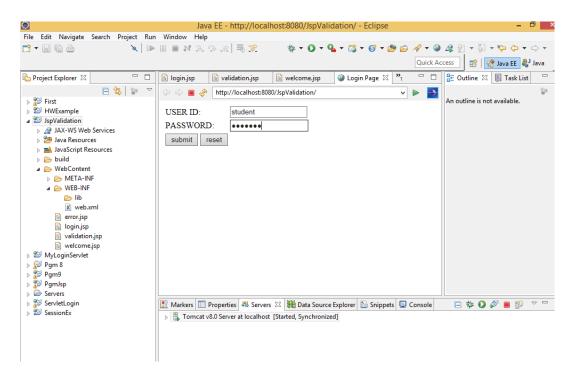
#### Login.jsp

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title> Login Page </title>
</head>
<body>
     <form action="validation.jsp">
     USER ID: 
          <input type="text" name="uname" /> <br>
          PASSWORD: 
     <input type="password" name="password" /> <br>

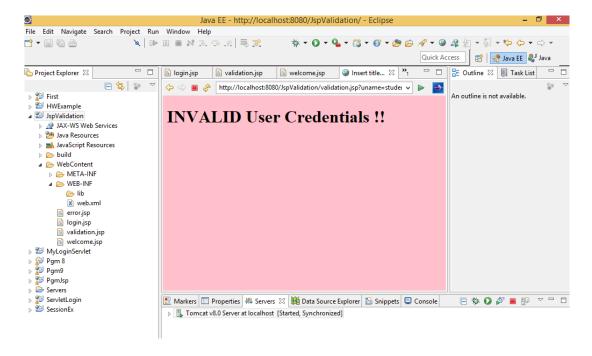
               <input type="submit" value="submit" >
               <input type="reset" value="reset">
          </form>
     </body>
```



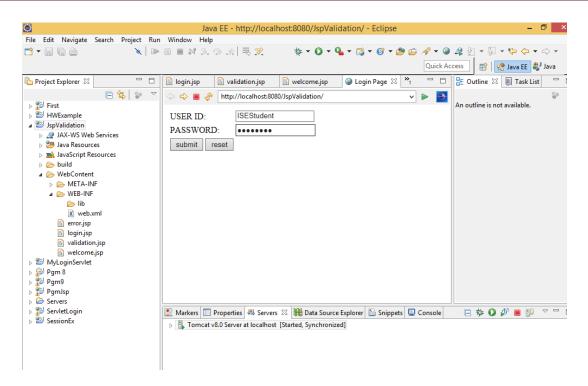
Login Page



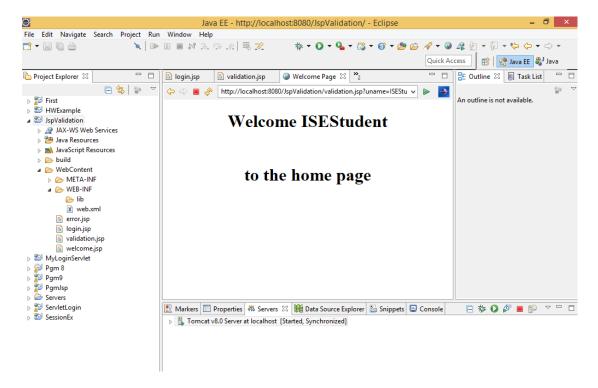
#### **Invalid User Credentials**



Error Page



Valid Login Credentials



Welcome Page

12. Write a simple JSP program to display a phrase with increasing font size.

#### fontSz.jsp

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body bgcolor= "yellow" >
       <center>
       <b><i>
       <\% for (fontSize = 1; fontSize <= 7; fontSize++){ %>
       <fort face="Arial" color = "blue" size = "<%= fontSize %>">
        Java Lab
        <br/>br></br>
       </font>
       <%}%>
       </b></i>
       </center>
</body>
</html>
```

