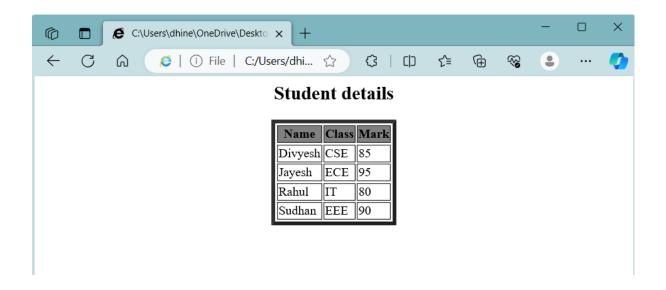
Student.xml

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="Student.xsl"?>
<student>
     <details>
           <name> Divyesh </name>
           <class> CSE </class>
           <mark> 85</mark>
      </details>
      <details>
           <name> Jayesh </name>
           <class> ECE </class>
           <mark> 95</mark>
      </details>
      <details>
           <name> Rahul </name>
           <class> IT </class>
           <mark> 80</mark>
     </details>
      <details>
           <name> Sudhan </name>
           <class> EEE </class>
           <mark> 90</mark>
     </details>
</student>
```

Student.xsl

```
<?xml version="1.0"?>
<xsl:stylesheet version="1.0"</pre>
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
    <html>
         <body>
             <h2 ALIGN="CENTER">Student details</h2>
             Name
                  Class
                  Mark
             <xsl:for-each select="student/details">
             <xsl:sort select="name"/>
             >
                  <xsl:value-of select="name"/>
                  <xsl:value-of select="class"/>
                  <xsl:value-of select="mark"/>
             </xsl:for-each>
             </body>
    </html>
</xsl:template>
</xsl:stylesheet>
```



Login.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
  pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Login Page</title>
<style>
     body{
            font-family: Arial, sans-serif;
      }
      .container{
            max-width:500px;
            padding:30px;
            border: 1px solid #ccc;
            box-shadow: 0 0 100px rgb(54, 150, 255, 0.35);
            margin: 200px auto;
            border-radius: 5px;
      }
     label{
            display:block;
            margin-bottom:5px;
      #username {
      width: 95%;
```

```
padding: 10px;
       margin-bottom: 15px;
       border: 1px solid #ccc;
       border-radius: 5px;
  }
  #password {
       width: 95%;
       padding: 10px;
       margin-bottom: 15px;
       border: 1px solid #ccc;
       border-radius: 5px;
  }
  input[type="submit"] {
       background-color: #007bff;
       color: #fff;
       padding: 10px 20px;
       border: none;
       border-radius: 5px;
       cursor: pointer;
  }
</style>
</head>
<body>
      <div class="container">
      <h1 style="text-align:center;">Quiz App</h1>
      <form id="login" name="login" method="GET" action="Question.jsp">
            <label for="username">Username: </label>
```

```
<input type="text" id="username" name="username"</pre>
placeholder="Enter your username">
           <label for="password">Password: </label>
           <input type="password" id="password" name="password"</pre>
placeholder="Enter your password">
           <input type="submit" value="Login">
      </form>
      </div>
</body>
</html>
                               Question.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
  pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Question</title>
</head>
<body>
     <%@page import="java.sql.*" %>
     <%@page import="javax.sql.*" %>
      <%
           Connection con=null;
           Statement s =null;
           ResultSet rs=null;
           String a1, a2, x, y;
```

```
int a = 0;
try{
      /*
            -----Using jdbc.odbc library-----
            Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
            a1=request.getParameter("username");
            a2=request.getParameter("password");
            con=DriverManager.getConnection();
      */
     // ------Using ucanaccess library------
     Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
      String path = "D:\\log.accdb";
      String url = "jdbc:ucanaccess://"+path;
      a1=request.getParameter("username");
      a2=request.getParameter("password");
      System.out.println(a1+"\n"+a2);
      con=DriverManager.getConnection(url);
      s=con.createStatement();
     rs=s.executeQuery("SELECT *FROM log");
     //System.out.println(rs);
      while(rs.next()){
            x=rs.getString("username");
```

```
if(a1.equals(x))
            y=rs.getString("password");
                  if(a2.equals(y)){
                         a=1;
                   }
      if(a==1){
            out.println("<form style=\"font-family: Arial, sans-serif;\"
id=\"form1\" method=\"get\" action=\"http://localhost:8080/JSP/Score.jsp\">");
            out.println("<div style=\"max-width:700px; padding:30px; border:
1px solid #ccc; box-shadow: 0 0 100px rgb(54, 150, 255, 0.35); margin: 200px
auto; border-radius: 5px;\"><h1>Select any one of the options to
answer...</h1>");
            out.println("<h2>Who is the Father of Atom Bomb?</h2>");
            out.println("<input type=\"radio\" name=\"r1\"
value=\"Oppenheimer\"/>Oppenheimer<br/>s);
            out.println("<input type=\"radio\" name=\"r1\"
value=\"Aristotle\"/>Aristotle<br>");
            out.println("<input type=\"radio\" name=\"r1\"
value=\"Feynman\"/>Feynman<br>");
            out.println("<input type=\"radio\" name=\"r1\" value=\"Antonie
van\"/>Antonie van<br>");
            out.println("<h2>Who is the Father of Electricity?</h2>");
            out.println("<input type=\"radio\" name=\"r2\" value=\"Karl
Landsteiner\"/>Karl Landsteiner<br/><br/>);
            out.println("<input type=\"radio\" name=\"r2\" value=\"William
Harvey\"/>William Harvey<br>");
            out.println("<input type=\"radio\" name=\"r2\" value=\"Benjamin
Franklin\"/>Benjamin Franklin<br>");
```

```
out.println("<input\ type=\"radio\"\ name=\"r2\"\ value=\"Robert\ Hooke\"/>Robert\ Hooke<br/>'');
```

out.println("<h2>Who is the Father of Nuclear Physics?</h2>");
out.println("<input type=\"radio\" name=\"r3\" value=\"Ernst
Rutherford\"/>Ernst Rutherford
br>");

out.println("<input type=\"radio\" name=\"r3\" value=\"Paul Berg\"/>Paul Berg
br>");

out.println("<input type=\"radio\" name=\"r3\" value=\"John Locke\"/>John Locke
br>");

out.println("<input type=\"radio\" name=\"r3\" value=\"James Hutton\"/>James Hutton
');

 $out.println("<h2>Who is the Father of Comic Books?</h2>"); \\ out.println("<input type=\"radio\" name=\"r4\" value=\"Walter White\"/>Walter White
br>"); \\$

 $out.println("<input\ type=\"radio\"\ name=\"r4\"\ value=\"John\ Snow\"/>John\ Snow
");$

out.println("<input type=\"radio\" name=\"r4\" value=\"James Hunter\"/>James Hunter
br>");

out.println("<input type=\"radio\" name=\"r4\" value=\"Stan Lee\"/>Stan Lee
br>");

out.println("<h2>Who is the Father of Computer?</h2>");

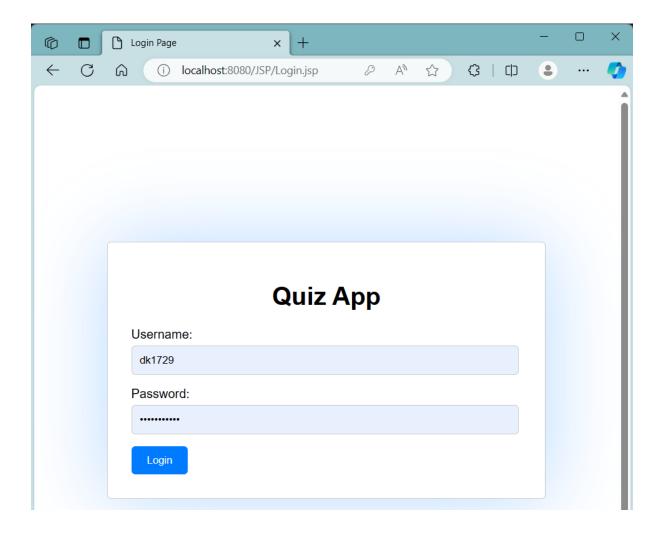
out.println("<input type=\"radio\" name=\"r5\" value=\"Charles Darwin\"/>Charles Darwin
');

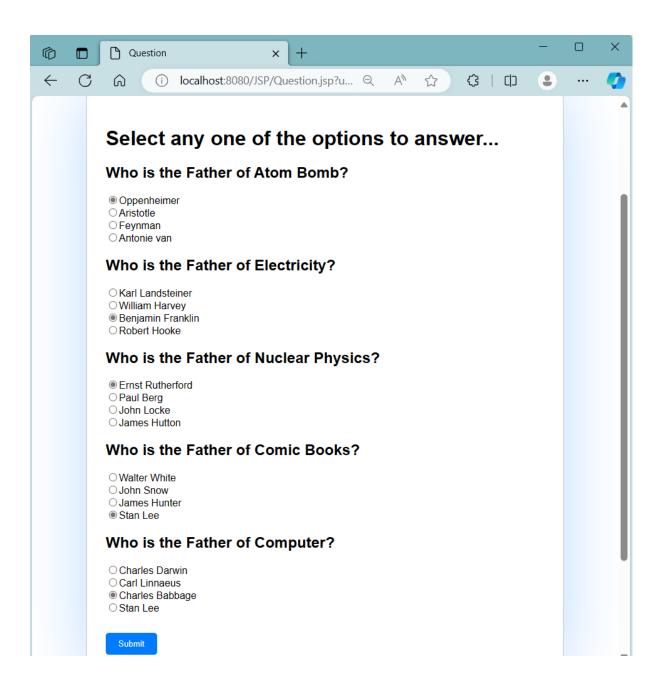
out.println("<input type=\"radio\" name=\"r5\" value=\"Carl Linnaeus\"/>Carl Linnaeus

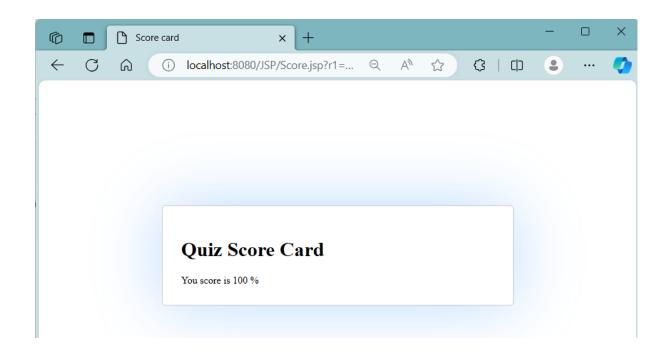
);

out.println("<input type=\"radio\" name=\"r5\" value=\"Charles Babbage\"/>Charles Babbage
br>");

```
out.println("<input type=\"radio\" name=\"r5\" value=\"Claude
Ba\"/>Stan Lee<br>");
            out.println("<input type=\"submit\" value=\"Submit\"
style=\"background-color: #007bff; color: #fff; padding: 10px 20px; border:
none;margin-top:30px;justify-content:center; border-radius: 5px; cursor:
pointer;\"/></div></form>");
      }
      else
            out.println("<h1>Invalid Login</h1>");
      }
}
catch(Exception e){
      e.printStackTrace();
}
%>
</body>
</html>
```







XSLTransform.java

```
import java.io.*;
import java.io.IOException;
import javax.xml.parsers.*;
import javax.xml.transform.*;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.stream.*;
class XSLTransform {
 public static void main(String args[]) {
   try {
TransformerFactory tFactory=TransformerFactory.newInstance();
Transformer transformer=tFactory.newTransformer(new StreamSource(new
                                                             File(args[0]));
transformer.transform(new StreamSource(new File(args[1])),new
                                                 StreamResult(System.out));
    }
   catch(Exception e) {
      e.printStackTrace();
   }
   return;
  }
}
                              HelloWorld.xml
<?xml version="1.0" encoding="UTF-8"?>
```

<message>Hello World!</message>

HelloWorld.xsl

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:transform version="1.0"</pre>
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns="http://www.w3.org/1999/xhtml">
<xsl:template match="/">
<html>
      <head>
           <title>
                 HelloWorld.xsl (transformed)
           </title>
      </head>
      <body>
           <xsl:value-of select="child::message" />
      </body>
</html>
</xsl:template>
</xsl:transform>
```



```
<html>
  <head>
    <title>Internal CSS</title>
    <style>
       .main{}
         text-align: center;
         background-color: gray;
       }
      #demo{
         color: aqua;
         font-size: 40px;
       }
    </style>
  </head>
  <body>
    <div class="main">
      <div id="demo">Hello Web</div>
    </div>
  </body>
</html>
```



external.html

```
<html>
  <head>
    <title>External CSS</title>
    <link rel="stylesheet" href="./styles.css">
  </head>
  <body>
    <h1>This is heading element</h1>
    This is paragraph element
  </body>
</html>
                                 styles.css
body{
  background-color: #ccccc;
}
h1{
  color: black;
  margin-left: 100px;
}
p{
  color: blue;
  margin-left: 150px;
}
```



formValidation.html

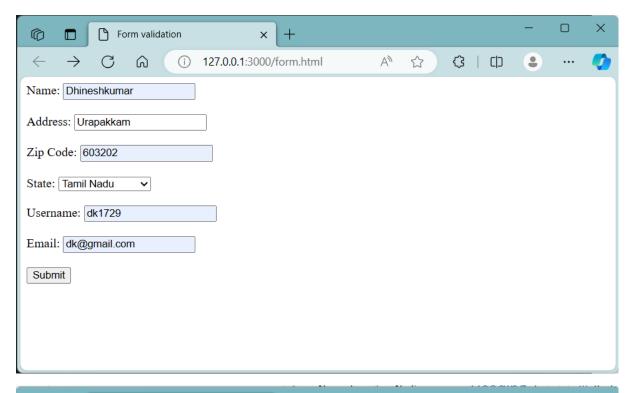
```
<html>
  <head>
    <title>Form validation</title>
    <script type="text/javascript">
       function formValidation(){
         var name = document.getElementById('name');
         var addr = document.getElementById('addr');
         var zip = document.getElementById('zip');
         var state = document.getElementById('state');
         var username = document.getElementById('username');
         var email = document.getElementById('email');
         if(isAlphabet(name, "Please enter only letters"))
          {
            if(isAlphanumeric(addr, "Numbers and letters only"))
            {
              if(isNumeric(zip,"Please enter valid zip code"))
               {
                 if(madeSelection(state,"Please choose a state"))
                 {
                   if(lengthRestriction(username, 6, 8))
                      if(emailValidator(email,"Please enter a valid email"))
                      {
                        return true;
```

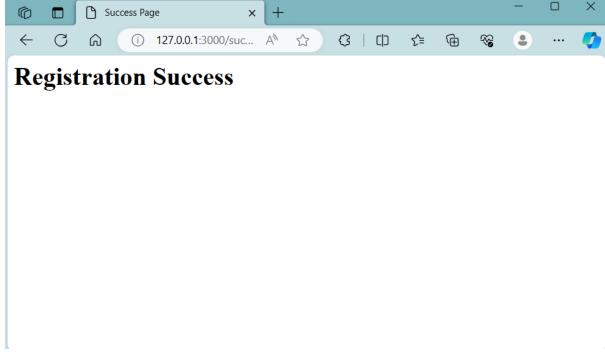
```
return false;
}
function isAlphabet(elem, helperMsg){
  var\ alphaExp = /^[a-zA-Z]\{3,15\}\$/;
  if(alphaExp.test(elem.value))
     return true;
  else{
     alert(helperMsg);
     elem.focus;
    return false;
  }
function isAlphanumeric(elem, helperMsg){
  var\ alphanumExp = /^[0-9a-zA-Z]\{2,45\}\$/;
  if(alphanumExp.test(elem.value))
     return true;
  else{
     alert(helperMsg);
     elem.focus;
    return false;
  }
```

```
}
function isNumeric(elem, helperMsg){
  var numExp = /^[0-9]{6}$/;
  if(numExp.test(elem.value))
     return true;
  else{
     alert(helperMsg);
     elem.focus;
     return false;
  }
}
function madeSelection(elem, helperMsg){
  if(elem.value == "TN" \parallel elem.value == "KL" \parallel elem.value == "AP")
     return true;
  else{
     alert(helperMsg);
     elem.focus;
    return false;
  }
}
function lengthRestriction(elem, min, max){
  var uInput = elem.value;
  if(uInput.length >= min && uInput.length <= max)
     return true;
  else{
     alert("Please enter between "+min+" and "+max+" characters");
     elem.focus;
```

```
return false;
         }
       }
       function emailValidator(elem, helperMsg){
         var emailExp = /^[a-zA-Z0-9]. %+-]+@[a-zA-Z0-9]{4,8}\.[a-zA-Z0-9]
Z]{2,4}$/;
         if(emailExp.test(elem.value))
           return true;
         else{
           alert(helperMsg);
           elem.focus;
           return false;
         }
    </script>
  </head>
  <body>
    <form onsubmit="return formValidation()" method="post"</pre>
action="success.html">
       Name: <input type="text" id="name"/><br><br>
       Address: <input type="text" id="addr"/><br><br>
       Zip Code: <input type="text" id="zip"/><br><br>
       State: <select id="state">
         <option value="TN">Tamil Nadu</option>
         <option value="KL">Kerala</option>
         <option value="AP">Andhra Pradesh
       </select></br><br>
       Username: <input type="text" id="username"/><br><br>
```

```
Email: <input type="text" id="email"/><br><br><input type="submit" value="Submit">
</form>
</body>
</html>
```



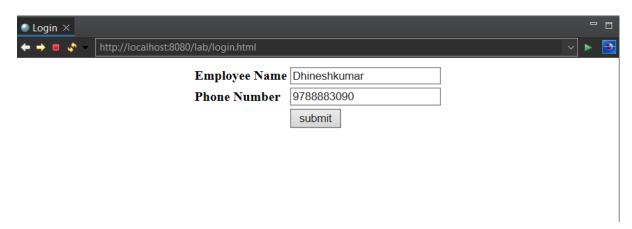


Login.html

```
<!DOCTYPE html>
<html>
    <head>
        <title>Login</title>
    </head>
    <body>
        <form method="get" action="http://localhost:8080/lab/PostParam">
        >
           <b>Employee Name</b>
           <input type="text" name="Employee Name" size="25"
value=" ">
          <b>Phone Number</b>
           <input type="text" name="Phone Number" size="25"
value=" ">
          <input type="submit" value="submit">
          </form>
    </body>
</html>
```

PostParam.java

```
import java.io.*;
import java.util.Enumeration;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/PostParam")
public class PostParam extends HttpServlet {
      private static final long serialVersionUID = 1L;
  public PostParam() {
    super();
  }
      protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
            PrintWriter pw = response.getWriter();
            Enumeration e = request.getParameterNames();
            while(e.hasMoreElements()) {
                   String pname = (String)e.nextElement();
                  pw.println(pname+ " = ");
                   String pvalue = request.getParameter(pname);
                  pw.println(pvalue);
                  pw.println();
            }
            pw.close();
}
```



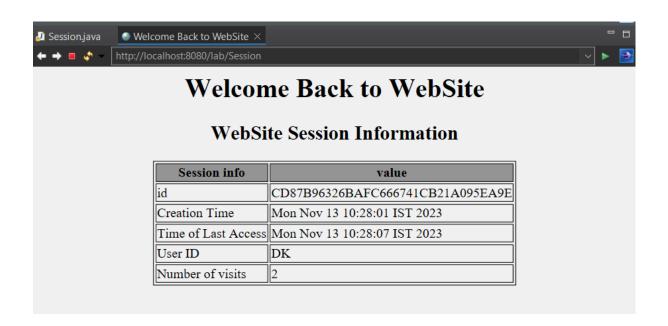


```
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;
@WebServlet("/Session")
public class Session extends HttpServlet {
      private static final long serialVersionUID = -3628868596355743226L;
      public void doGet(HttpServletRequest request,
                               HttpServletResponse response)
            throws ServletException, IOException
      {
            HttpSession session = request.getSession(true);
            Date createTime = new Date(session.getCreationTime());
            Date lastAccessTime = new Date(session.getLastAccessedTime());
            String title = "Welcome Back to WebSite";
            Integer visitCount = new Integer(0);
            String visitCountKey = new String("visitCount");
            String userIDKey = new String("userID");
            String userID = new String("DK");
            if (session.isNew()) {
                  title = "Welcome to 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\">WebSite Session
Information</h2>\n"
                + "\n"
                +
                "  \"
                + " Session infovalue"
                + "\n"
                +
```

```
" n"
+ " <td>id</td>\n"
+ "  " + session.getId() + "  "
+ "\n"
+
"<tr>\n"
+ " Creation Time\n"
+ " " + createTime + " "
+ "\n"
+
"<tr>\n"
+ " Time of Last Access\n"
+ " " + lastAccessTime + ""
+ "\n"
+
" n"
+ " <td>User ID</td>\n"
+ " " + userID + ""
+ "\n"
+
" n"
+ " Number of visits\n"
+ " " + visitCount + " "
```

```
+ "\n"
+ "\n"
+ "</body>"
+ "</html>");
}
```



Map.html

```
<!DOCTYPE html>
<html>
<body>
<img src="india.jpg" alt="msp" usemap="#workmap" width="209"
height="242">
<map name="workmap">
<area shape="rect" coords="83,41,57,63" alt="delhi" href="delhi.html">
<area shape="rect" coords="149,129,124,83" alt="calcutta"</pre>
href="calcutta.html">
<area shape="rect" coords="89,184,56,226" alt="tamilnadu"
href="tamilnadu.html">
</map>
</body>
</html>
                             tamilnadu.html
<html>
<body bgcolor="aliceblue">
<center style="margin-top: 100;">Chennai is the capital of Tamil Nadu<br> and
<br/>br>More IT companies are camped at Chennai/center>
</body>
</html>
```

calcutta.html

<html></html>
<body bgcolor="SKYBLUE"></body>
<pre><center><i>Calcutta is the wealthy city in WEST BENGAL and It has Famous "Sunderbans Forests"</i></center></pre>
delhi.html
<html></html>
<body bgcolor="SKYBLUE"></body>
<pre><center><i>Delhi is the capital of our INDIA and more IT</i></center></pre> companies are Camped at Delhi //i> //center>

