	SCTR's PUNE INSTITUTE OF COMPUTER TECHNOLOGY PUNE - 411043		
	Department of Electronics & Telecommunication Engineering (E&TCE)		
	ASSESMENT YEAR: 2024-2025	CLASS: TE 7	BATCH:-N7
	SUBJECT: Advanced JAVA Programming		
	Assignment No:7	**Roll No: 32402**	**Date: 02/04/2025**

Programmer Name: Sahil Amrutkar
Batch: N7

Problem Statement:
A. Design Servlet (procedure for client side) to display the username and password accepted from the client.
B. Design Servlet (procedure for server side) to display the username and password accepted from the client.

Code:

Index.html


```html
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Login Page</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f9;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }
    .form-container {
      background: #fff;
```

```
    padding: 20px 30px;

    border-radius: 10px;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

}

.form-container h2 {

    margin-bottom: 20px;

    color: #333;

}

.form-container label {

    display: block;

    margin-bottom: 5px;

    color: #555;

}

.form-container input {

    width: 100%;

    padding: 10px;

    margin-bottom: 15px;

    border: 1px solid #ddd;

    border-radius: 5px;

}

.form-container button {

    background-color: #007bff;

    color: white;

    padding: 10px 15px;

    border: none;

    border-radius: 5px;

    cursor: pointer;
```

```
      font-size: 16px;

    }

    .form-container button:hover {

      background-color: #0056b3;

    }

  </style>

</head>

<body>

  <div class="form-container">

    <h2>Login Form</h2>

    <form action="ClientSideServlet" method="post">

      <label for="username">Username:</label>

      <input type="text" id="username" name="username" required>

      <label for="password">Password:</label>

      <input type="password" id="password" name="password" required>

      <button type="submit">Submit</button>

    </form>

  </div>

</body>

</html>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" 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_4_0.xsd"
id="WebApp_ID" version="4.0">

  <display-name>LoginPage</display-name>
```

```xml
<servlet>

    <servlet-name>ClientSideServlet</servlet-name>

    <servlet-class>com.loginpage.ClientSideServlet</servlet-class>

</servlet>


<servlet-mapping>

    <servlet-name>ClientSideServlet</servlet-name>

    <url-pattern>/ClientSideServlet</url-pattern>

</servlet-mapping>


<servlet>

    <servlet-name>AuthenticationServlet</servlet-name>

    <servlet-class>com.loginpage.AuthenticationServlet</servlet-class>

</servlet>

<servlet-mapping>

    <servlet-name>AuthenticationServlet</servlet-name>

    <url-pattern>/AuthenticationServlet</url-pattern>

</servlet-mapping>


<welcome-file-list>

  <welcome-file>index.html</welcome-file>

  <welcome-file>index.jsp</welcome-file>

  <welcome-file>index.htm</welcome-file>

  <welcome-file>default.html</welcome-file>

  <welcome-file>default.jsp</welcome-file>

  <welcome-file>default.htm</welcome-file>

</welcome-file-list>
```

</web-app>

ClientSideServlet

```java
package com.loginpage;

import java.io.IOException;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.*;

public class ClientSideServlet extends HttpServlet
{
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        String username = request.getParameter("username");
        String password = request.getParameter("password");

        request.setAttribute("username", username);
        request.setAttribute("password", password);
        request.getRequestDispatcher("AuthenticationServlet").forward(request, response);
    }
}
```

Authentication Servlet

```java
package com.loginpage;
```

```java
import java.io.IOException;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.*;


public class AuthenticationServlet extends HttpServlet {
  private static final long serialVersionUID = 1L;
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException
  {
    response.setContentType("text/html");
        String u= "sahil.amrutkar@gmail.com";
        String p= "Pass@123";
    String username = (String) request.getAttribute("username");
    String password = (String) request.getAttribute("password");


    response.getWriter().println("<html><head><title>Authentication</title></head><body>");
    response.getWriter().println( "<h2>Username: " + username + "</h2>");
    response.getWriter().println( "<h2>Password: " + password + "</h2>");


    if(username.equals(u) && password.equals(p))
    {
        response.getWriter().println("<h3 style=\"color: green;\">> User credentials verified </h3>");
    }
    else
    {
        response.getWriter().println( "<h3 style=\"color: red;\"> Invalid user </h3>" );
```

```
        }


    }
}
```

Output: