

WORKSHEET 1

Student Name: Parwinder Kaur

UID: 23MCI10248

Branch: MCA-AIML

Section/Group: 23MAM-2/B

Semester: 2

Date: 18/01/2024

Subject Name: Advanced Internet Programming

Subject Code: 23CAH-551

Aim: Order by length
Concept used: JAVA Servlet and HTML.

Overview of the practical: Create a simple client server communication application while creating a HTML with form and two input fields like First Name and Last Name. Submit the data to a servlet where the form data is retrieved and displayed. Create form with GET method and another with POST method.

Code of HTML:

```
<!DOCTYPE html>
<!--
Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
Click nbfs://nbhost/SystemFileSystem/Templates/JSP\_Servlet/Html.html to edit this template
-->
<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form name="Login Form" method="post" action="RegisterServlet">
      Username: <input type="text" name="username"/><br/>
      Password: <input type="password" name="password"/><br/>
      <input type="Submit" value="Login"/>
    </form>
  </body>
</html>
```

Code of Servlet:

```
package com.practice;
```

```
import jakarta.servlet.ServletException;  
import jakarta.servlet.http.HttpServlet;  
import jakarta.servlet.http.HttpServletRequest;  
import jakarta.servlet.http.HttpServletResponse;  
import java.io.IOException;  
import java.io.PrintWriter;
```

```
public class RegisterServlet extends HttpServlet{  
    @Override  
    protected void doPost(HttpServletRequest request, HttpServletResponse response)  
        throws ServletException, IOException {  
        String username = request.getParameter("username");  
        String password = request.getParameter("password");  
        System.out.println("username: " + username);  
        System.out.println("password: " + password);  
        PrintWriter writer = response.getWriter();  
  
        String htmlResponse = "<html>";  
        htmlResponse += "<h2>Your username is: " + username + "<br/>";  
        htmlResponse += "Your password is: " + password + "</h2>";  
        htmlResponse += "</html>";  
  
        writer.println(htmlResponse);  
    }  
}
```


```
1 <?xml version="1.0" encoding="UTF-8"?>  
2 <web-app version="6.0" xmlns="https://jakarta.ee/xml/ns/jakartaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="https://jakarta.ee/x  
3 <servlet>  
4 <servlet-name>NewServlet</servlet-name>  
5 <servlet-class>com.practice.RegisterServlet</servlet-class>  
6 </servlet>  
7 <servlet-mapping>  
8 <servlet-name>NewServlet</servlet-name>  
9 <url-pattern>/RegisterServlet</url-pattern>  
10 </servlet-mapping>  
11 </web-app>
```

Output:

A.

Username:
Password:

B.

Username:
Password: 

C.

Your username is: ParwinderKaur
Your password is: 12345

Learning Outcomes:

1. We learned how to connect HTML webpage to JAVA using servlet.
2. We learned to install Tomcat server.
3. We learned to connect backend with frontend.
4. We learned to implement servlet into java code.

