**Program-08**

**A program to display greeting message on the browser “Hello UserName”, “How Are You?”, accept username from the client using servlet.**

Step-by-step guide to creating a servlet that accepts a username from the client and displays a greeting message on the browser.

**Step 1: Create the HTML Form**

First, create an HTML form to accept the username from the client.

//

<!DOCTYPE html>

<html>

<head>

<title>Greeting Form</title>

</head>

<body>

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

Enter your name: <input type="text" name="username" />

<input type="submit" value="Submit" />

</form>

</body>

</html>

//

Save this file as index.html.

**Step 2: Create the Servlet**

Create a servlet that handles the form submission and displays the greeting message.

//

import java.io.IOException;

import java.io.PrintWriter;

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("/greet")

public class GreetingServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// Get the username from the request

String username = request.getParameter("username");

// Set the response content type

response.setContentType("text/html");

// Write the response

PrintWriter out = response.getWriter();

out.println("<html>");

out.println("<body>");

out.println("<h1>Hello " + username + "</h1>");

out.println("<h2>How Are You?</h2>");

out.println("</body>");

out.println("</html>");

}

}

//

**Step 3: Configure the Web Application**

1. **Directory Structure:**

* Create a directory structure for your web application.

WebContent/

WEB-INF/

web.xml

index.html

src/ GreetingServlet.java

1. **web.xml Configuration:**

Create a web.xml file in the WEB-INF directory to configure the servlet.

**//**

<!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN" "http://java.sun.com/dtd/web-app\_2\_3.dtd">

<web-app>

<servlet>

<servlet-name>GreetingServlet</servlet-name>

<servlet-class>GreetingServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>GreetingServlet</servlet-name>

<url-pattern>/greet</url-pattern>

</servlet-mapping>

</web-app>

//

**Step 4: Compile and Deploy the Application**

1. **Compile the Servlet:**

Ensure your servlet code is compiled. If you are using an IDE like Eclipse or IntelliJ IDEA, this should be straightforward. If using the command line, you can compile with the following command, assuming your servlet API jar is in the lib directory.

**javac -classpath "path/to/servlet-api.jar" -d . GreetingServlet.java**

1. **Deploy the Application:**

* Package the web application as a WAR file or deploy the directory structure directly to your servlet container (like Apache Tomcat).

**Step 5: Run the Application**

1. **Start the Servlet Container:** Ensure your servlet container (like Tomcat) is running.
2. **Access the HTML Form:** Open a web browser and navigate to the index.html file. If deployed on localhost with Tomcat, the URL might look like:

[**http://localhost:8080/YourAppName/index.html**](http://localhost:8080/YourAppName/index.html)

1. **Submit the Form:** Enter a username in the form and submit it. The servlet should process the form data and display the greeting message.