

Create a servlet that receives user input from an HTML form and displays it back to the user.

Steps:

1. Create an HTML form to collect the user's name.
2. Create a Servlet (GetUserInputServlet) to handle the form submission and display the user's name.

HTML Form (index.html):

```
<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 bgcolor = "#ffbf00">


<div><h1><center>User input</center></h1></div>


<form action="getUserInput12" method="POST">

<table style = "width:70%">

<tr><th><h3> Name </h3></th><th><input type="text" name="un"</tr>

<tr><td colspan="2" align="center"><input type = "submit" value="save"</td></tr>

</form>

</table>

<tr>

<hr>

<h1>Calculate</h1>

<form action="CalculateSumServlet" method="post">
```

```

        First Number:<input type="number" name="num1" required><br>
        Second Number: <input type="number" name="num2" required><br>
<input type="submit" value="Calculate Sum">
</form>
</tr>
</form>

</body>
</html>

```

(getUserInput.java)

```

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;

/**
 *
 * @author student
 */
@WebServlet(urlPatterns = {"/getUserInput"}) public
class getUserInput12 extends HttpServlet {

    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     *
     * @param request servlet request

```

```

* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs
*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {    String name = request.getParameter("un");
response.setContentType("text/html;charset=UTF-8"); try (PrintWriter out =
response.getWriter()) {

    /* TODO output your page here. You may use following sample code. */
    out.println("<!DOCTYPE html>"); out.println("<html>"); out.println("<head>");
    out.println("<title>Servlet getUserInput12</title>");
    out.println("</head>"); out.println("<body>"); out.println("<h1> Input name "
+ name + "</h1>"); out.println("</body>"); out.println("</html>");

    }

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to
edit the code.">

/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
processRequest(request, response);

```

```

    }

    /**
    * Handles the HTTP <code>POST</code> method.
    *
    * @param request servlet request
    * @param response servlet response
    * @throws ServletException if a servlet-specific error occurs
    * @throws IOException if an I/O error occurs
    */
    @Override protected void doPost(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {
    processRequest(request, response);
    }

    /**
    * Returns a short description of the servlet.
    *
    * @return a String containing servlet description
    */
    @Override public String
    getServletInfo() { return
    "Short description";

    } // </editor-fold>
}

```

User Input

name :

input name: Nimal

```
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;
```

```
/**
```

```
*
```

```
* @author student
```

```
*/
```

```
@WebServlet(urlPatterns = {"/CalculateSumServlet"}) public
```

```
class CalculateSumServlet extends HttpServlet {
```

```
/**
```

```
* Processes requests for both HTTP GET and POST
```

```
* methods.
```

```

*
* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs
*/
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException { int num1 =
Integer.parseInt(request.getParameter("num1")); int num2 =
Integer.parseInt(request.getParameter("num2")); int sum = num1 + num2;
response.setContentType("text/html;charset=UTF-8"); try (PrintWriter out =
response.getWriter()) {
    /* TODO output your page here. You may use following sample code. */
    out.println("<!DOCTYPE html>"); out.println("<html>"); out.println("<head>");
    out.println("<title>Servlet CalculateSumServlet</title>");
    out.println("</head>"); out.println("<body>"); out.println("<h1> Calculate
Sum</h1>"); out.println("<h3> First user input:"+num1+"</h1>");
    out.println("<h3> Second user input:"+num2+"</h1>"); out.println("<h1>
Answer:"+sum+"</h1>");
    //out.println("<h1>The sum of " + num1 + " and " + num2 + " is: " + sum + "</h1>");
    //out.println("<h1>Servlet CalculateSumServlet at " + request.getContextPath() + "</h1>");
    out.println("</body>");

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

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to
edit the code.">

/**

```

* Handles the HTTP `GET` method.

*

* @param request servlet request

* @param response servlet response

* @throws ServletException if a servlet-specific error occurs

* @throws IOException if an I/O error occurs

*/

```
@Override protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
    processRequest(request, response);
}
```

/**

* Handles the HTTP `POST` method.

*

* @param request servlet request

* @param response servlet response

* @throws ServletException if a servlet-specific error occurs

* @throws IOException if an I/O error occurs

*/

```
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException { processRequest(request, response);
}
```

/**

* Returns a short description of the servlet.

*

* @return a String containing servlet description

```
*/
```

```
@Override public String
```

```
getServletInfo() { return
```

```
"Short description";
```

```
}// </editor-fold>
```

```
}
```

First Number:

Second Number:

calculate answer: 35