Lab Sheet 4

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)

```
importjava.io.IOException;
importjava.io.PrintWriter;
importjavax.servlet.ServletException;
importjavax.servlet.annotation.WebServlet;
importjavax.servlet.http.HttpServlet;
importjavax.servlet.http.HttpServletRequest;
importjavax.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)
throwsServletException, 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
```

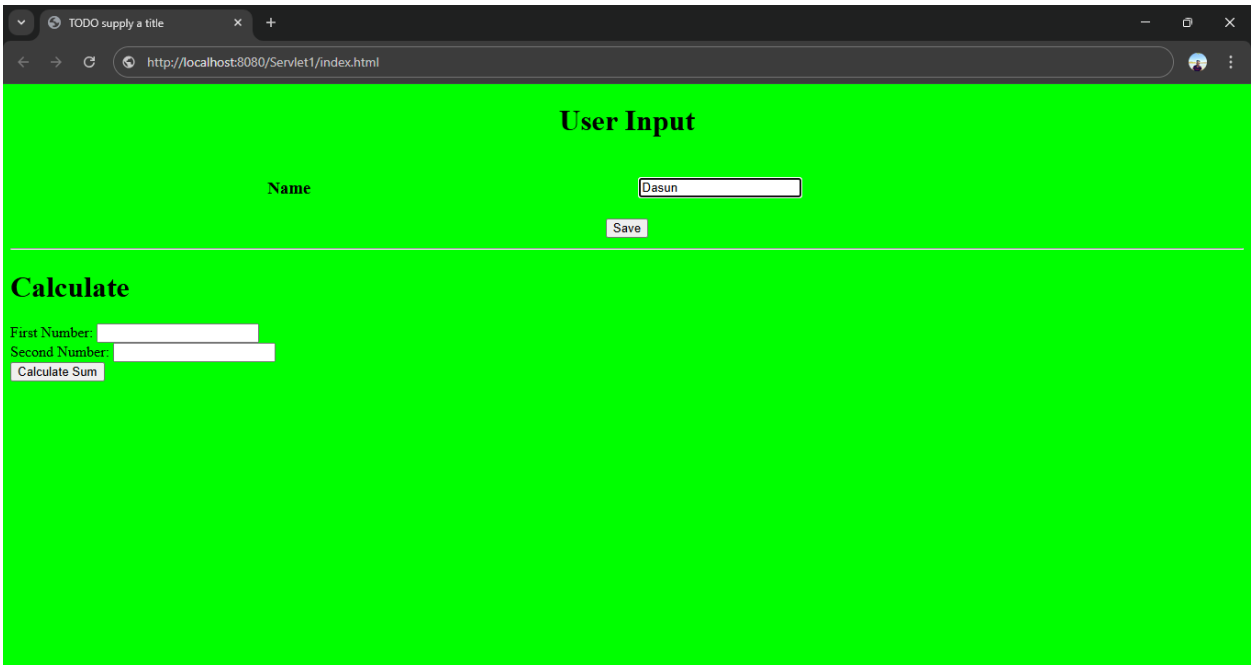
```
     * @throws IOException if an I/O error occurs
     */
    @Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throwsServletException, IOException {
processRequest(request, response);
    }

    /**
     * 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)
throwsServletException, 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>

}
```



Input name Dasun

```
importjava.io.IOException;
importjava.io.PrintWriter;
importjavax.servlet.ServletException;
importjavax.servlet.annotation.WebServlet;
importjavax.servlet.http.HttpServlet;
importjavax.servlet.http.HttpServletRequest;
importjavax.servlet.http.HttpServletResponse;

/**
 *
 * @author student
 */
@WebServlet(urlPatterns = {"/CalculateSumServlet"})
public class CalculateSumServlet 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)
throwsServletException, 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>");
```

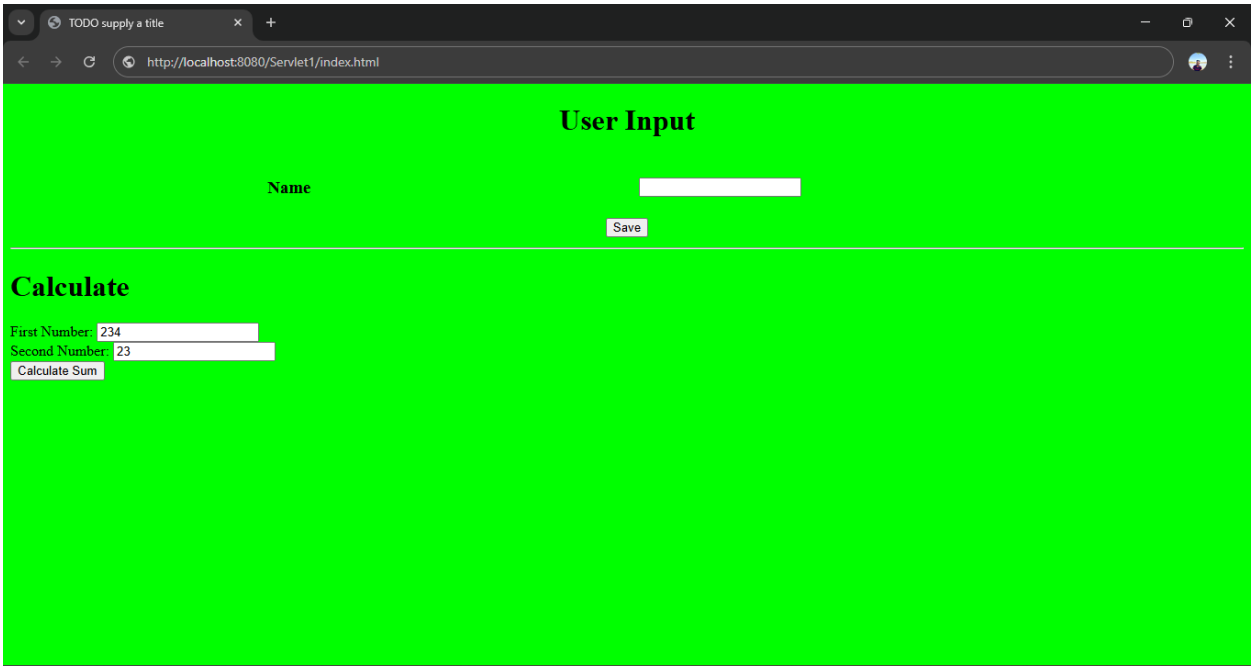
```
out.println("</html>");
        }
    }

    // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">
    /**
     * Handles the HTTP <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)
throwsServletException, 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)
throwsServletException, 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>
}
```



Calculate Sum

First user input:234

Second user input:23

Answer:257