Roll no: 43143

Name: Kumar Deshmukh

Assignment 7

Code:

WebService Server:

Calculator.java operation

```
Start Page \times index.html \times index
Source Design History 🔯 🐺 📲 - 🔍 🖰 🐶 🖶 📮 💡 🚱 😫 💇 🌘 🗆 🏙 🚅
                          * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
                      * Click nbfs://nbhost/SystemFileSystem/Templates/WebServices/WebService.java to edit this template */
                    package com.unique;
   7 📮 import javax.jws.WebService;
                    import javax.jws.WebMethod;
             import javax.jws.WebParam;
10
11 📮 /**
13
                      * @author MyLappy
14
15
                     @WebService(serviceName = "Calculator")
16
                     public class Calculator {
17
18 📮
                                     * Web service operation
19
20
21
                                      @WebMethod(operationName = "getNumber")
  № □
                                     public int getNumber(@WebParam(name = "num1") int num1, @WebParam(name = "num2") int num2) {
23
24
25
26
27
28
                                         * This is a sample web service operation
29
30
31
```

Web Service Tester

Calculator Web Service Tester

This form will allow you to test your web service implementation (WSDL File)

To invoke an operation, fill the method parameter(s) input boxes and click on the button labeled with the method name.

Methods:

```
public abstract int com.unique.Calculator.getNumber(int,int)

getNumber (12 ,14 )
```


Web Service Client:

```
Start Page 🗴 🎯 index.html 🗴 🚳 Calculator.java 🗴 🚳 Calculator.java 🗴
Source History 💹 🖫 - 🐺 - 🔼 😎 🖶 🖫 🔐 😤 🖭 🔮 🕒 🗆
     <!DOCTYPE html>
2 🗏 <!--
3
     Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 4
     Click nbfs://nbhost/SystemFileSystem/Templates/JSP Servlet/Html html to edit this template
 5
<head>
 8
            <title>TODO supply a title</title>
 9
            <meta charset="UTF-8">
            <meta name="viewport" content="width=device-width, initial-scale=1.0">
10
11
         </head>
12 =
13 =
         <body>
             <form action="Calculator">
14
                Enter no 1: <input type="text" name="txt1" value="" /> <br>
                 Enter no 2: <input type="text" name="txt2" value="" /> <br>
15
                <input type="submit" value="Submit" />
16
17
             </form>
18
         </body>
     </html>
19
20
```

```
Start Page \times \blacksquare index.html \times \blacksquare Calculator.java \times
* @param response servlet response
           * @throws ServletException if a servlet-specific error occurs
30
          * @throws IOException if an I/O error occurs
31
32
33
         protected void processRequest(HttpServletRequest request, HttpServletResponse response)
34
                throws ServletException, IOException {
35
             response.setContentType (\mbox{$^{type}$:$ "text/html; charset=UTF-8");}
36
             try (PrintWriter out = response.getWriter()) {
37
                 int num1=Integer.parseInt(s: request.getParameter(name: "txt1")), num2=Integer.parseInt(s: request.getParameter(name: "txt2"));
38
                 out.println(x: "<!DOCTYPE html>");
                 out.println(x: "<html>");
40
                 out.println(x: "<head>");
                 out.println(x: "<title>Servlet Calculator</title>");
42
                 out println(x: "</head>");
                 out.println(x: "<body>");
43
                out.println("<h1>Servlet Calculator at " + getNumber(num1, num2) + "</h1>");
<sub>e</sub>
                 out.println(x: "</body>");
45
                 out.println(x: "</html>");
46
47
48
49
50 +
         HttpServlet methods. Click on the + sign on the left to edit the code.
88
89 📮
         private int getNumber(int num1, int num2) {
90
             // Note that the injected javax.xml.ws.Service reference as well as port objects are not thread safe.
             // If the calling of port operations may lead to race condition some synchronization is required.
             com.unique.Calculator port = service.getCalculatorPort();
             return port.getNumber(num1, num2);
94
95
96
```

Output:

Enter no 1:	1	
Enter no 2:	2	
Submit		

Servlet Calculator at 3