

WEB APPLICATION USING SERVLETS AND JSP

// Program to Demonstrate Creating Web application using Servlet

//index.html

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>Insert title here</title>
6 </head>
7 <body >
8
9     <form action = "add" method="post">
10     input first number: <input type ="text" name ="num1"><br>
11     input Second number: <input type ="text" name ="num2"><br>
12     <input type ="Submit">
13
14     </form>
15
16 </body>
17 </html>
```

//AddServlet.java

```
1 package com.servlet;
2 import java.io.IOException;
3 import java.io.PrintWriter;
4 import javax.servlet.http.HttpServlet;
5 import javax.servlet.http.HttpServletRequest;
6 import javax.servlet.http.HttpServletResponse;
7
8 public class AddServlet extends HttpServlet{
9
10     public void service(HttpServletRequest req, HttpServletResponse res) throws
11     IOException
12     {
13         int i = Integer.parseInt(req.getParameter("num1"));
14         int j = Integer.parseInt(req.getParameter("num2"));
15
16         int k = i+j;
17         PrintWriter out = res.getWriter();
18         out.println("<html><body bgcolor='blue'>");
19         out.println("Result: "+k);
20         out.println("</body></html>");
21     }
22 }
```

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//Web.xml

```
*web.xml x index.html Add.jsp AddServlet.java
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd (xsi:schemaLocation with catalog)
1 <?xml version="1.0" encoding="UTF-8"?>
2 <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.j
3
4 <servlet>
5
6 <servlet-name>DIVB</servlet-name>
7 <servlet-class>com.servlet.AddServlet</servlet-class>
8 </servlet>
9
10 <servlet-mapping>
11 <servlet-name>DIVB</servlet-name>
12 <url-pattern>/add</url-pattern>
13
14 </servlet-mapping>
15
16 </web-app>
```

Output:

localhost:8080/ServletPrograms/index.html

input first number:

input Second number:

localhost:8080/ServletPrograms/add

Result: 20

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// Program to Demonstrate Creating Web application using JSP

//index.html

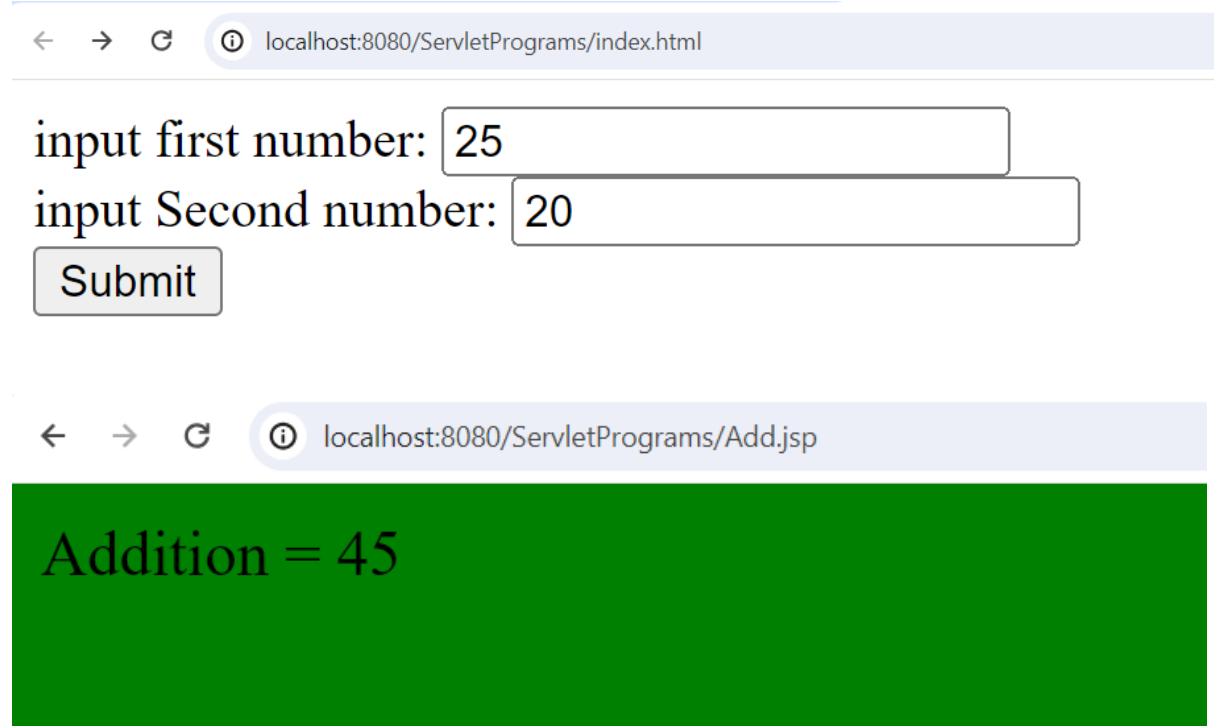
```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>Insert title here</title>
6 </head>
7 <body >
8
9     <form action = "Add.jsp" method="post">
10     input first number: <input type = "text" name = "num1"><br>
11     input Second number: <input type = "text" name = "num2"><br>
12     <input type = "Submit">
13
14     </form>
15
16 </body>
17 </html>
```

//Add.jsp

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2     pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="ISO-8859-1">
7 <title>Insert title here</title>
8 </head>
9 <body bgcolor = 'green'>
10
11     <%
12         int i = Integer.parseInt(request.getParameter("num1"));
13         int j = Integer.parseInt(request.getParameter("num2"));
14
15         int k = i+j;
16         out.println("Addition = "+k);
17     %>
18 </body>
19 </html>
```

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OUTPUT:



The image shows two screenshots of a web browser. The first screenshot displays a form with two input fields and a submit button. The first input field is labeled 'input first number:' and contains the value '25'. The second input field is labeled 'input Second number:' and contains the value '20'. Below the input fields is a button labeled 'Submit'. The browser's address bar shows 'localhost:8080/ServletPrograms/index.html'. The second screenshot shows the result of the addition, 'Addition = 45', displayed on a green background. The browser's address bar shows 'localhost:8080/ServletPrograms/Add.jsp'.

localhost:8080/ServletPrograms/index.html

input first number: 25

input Second number: 20

Submit

localhost:8080/ServletPrograms/Add.jsp

Addition = 45