

# Java Full Stack Lab Manual - JDBC Experiment

## Aim

To input two numbers in an HTML form and display their sum using a JSP file.

## Technologies Used

HTML, JSP, Apache Tomcat

## Directory Structure

```
AddNumbersApp/  
|  
+- input.html  
+- add.jsp  
+- WEB-INF/  
    +- web.xml
```

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## input.html

```
<html>
<head><title>Addition Form</title></head>
<body>
  <h2>Enter Two Numbers</h2>
  <form action="add.jsp" method="post">
    Number 1: <input type="text" name="num1" /><br>
    Number 2: <input type="text" name="num2" /><br>
    <input type="submit" value="Add" />
  </form>
</body>
</html>
```

## add.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<html>
<head><title>Result</title></head>
<body>
<%
    String n1 = request.getParameter("num1");
    String n2 = request.getParameter("num2");

    int a = Integer.parseInt(n1);
    int b = Integer.parseInt(n2);
    int sum = a + b;
%>

<h2>The sum of <%= a %> and <%= b %> is: <%= sum %></h2>
</body>
</html>
```

## web.xml (optional)

```
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
    http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
  version="3.1">

  <welcome-file-list>
    <welcome-file>input.html</welcome-file>
  </welcome-file-list>

</web-app>
```

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### How to Run

1. Place `input.html` and `add.jsp` inside a folder called `AddNumbersApp`.
2. Deploy the folder inside the `webapps` directory of Apache Tomcat.
3. Start Tomcat server.
4. Open browser and visit: <http://localhost:8080/AddNumbersApp/>

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### Expected Output

```
The sum of 10 and 20 is: 30
```

### Result

Successfully created a simple HTML + JSP application that takes two numbers and displays their sum dynamically.