

Experiment Title – 3.3

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Semester: 5th Subject Code: 21 CSP-321

Subject Name: PBLJ LAB

1.Aim: Create JSP application for addition, multiplication and division.

2. Software/Hardware Requirements: VS Code or Eclipse

3. Algorithm/ PsuedoCode:

STEP 1: Create a index.jsp file in a webapp directory.

STEP 2: Create a package named as fun and create a java file named as functions.java.

STEP 3: functions.java file contains the logic for Performing the Operation such as addition, Division and Subtraction.

STEP 4: At Last start the server and display the output on the web browser.

STEP 5: EXIT.

CODE:

Index.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Calculator</title>
<style>
body{
   background: black;
   color: white;
}
h1{
   text-align: center;
.Paramter{
   border: 2px solid white; background: blue;
   padding: 5px;
   max-width: 500px;
   margin: auto;
   font-size: 19px;
button{
   position: relative;
   left: 170px;
   margin: 10px; width: 60px; height: 30px;
   cursor:pointer;border-radius:5px;
}
button:hover{
   background: orange;
</style>
</head>
<body>
      <br/>
      <div class="Paramter">
          <form name="funcitons" action="<%=request.getContextPath()%>/functions"
method="post" >
                <h1>Mathematical Operation</h1>
                <input type="radio" id="add" name="fun" value="+"> Addition <br/>
                <input type="radio" id="mul" name="fun" value="*"> Multiplication
<br/>
                <input type="radio" id="sub" name="fun" value="-"> Subtraction
<br/><br/><br/>
                Enter the First Value: <input type="number" name="fst"><br/><br/><br/>
                Enter the Second Value: <input type="number" name="snd"><br/><br/>
                <button type="submit">Submit</button>
```

Functions.java

```
package fun;
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class functions
 */
@WebServlet(name="functions",urlPatterns={"/functions"})
public class functions extends HttpServlet {
      protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
             String a=request.getParameter("fst");
             String b=request.getParameter("snd");
             String fun=request.getParameter("fun");
             try {
                   System.out.println(a+fun+b);
```

```
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```

```
int i1=Integer.parseInt(a);
                    int i2=Integer.parseInt(b);
                    int ans=0;
                    if(fun.equals("+")) {
                          ans=i1+i2;
                    }else if(fun.equals("-")) {
                          ans=i1-i2;
                    }else if(fun.equals("*")) {
                          ans=i1*i2;
                    }
//
                    System.out.println(ans);
                    request.setAttribute("ans", ans);
      request.getRequestDispatcher("index.jsp").forward(request,response);
             }catch(Exception e) {
                    System.out.println(e);
             }
      }
}
```

OUTPUT:

Mathematical Operation	
 Addition Multiplication Subtraction 	
Enter the First Value: 23	
Enter the Second Value: 24 Submit Reset	
Ans = null	
Mathematical Operation	
 Addition Multiplication Subtraction 	
Enter the First Value:	
Enter the Second Value: Submit Reset	



Learning outcomes (What I have learnt):

- 1. Learn About the servlet.
- 2. Learn about jsp and dynamic web project.
- 3. Learn about the tomcat server and its integrations with the java.