

Experiment 3.3

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Section/Group: 902WM B

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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" 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/>
Enter the First Value: <input type="number" name="fst"><br/><br/>
Enter the Second Value: <input type="number" name="snd"><br/>
<button type="submit">Submit</button>
<button value="Reset">Reset</button>
</form>
<h1>Ans = <%=request.getAttribute("ans") %></h1>
</div>

</body> </html>

```

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);

            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:

Enter the Second Value:

Submit

Reset

Ans = null

Mathematical Operation

- Addition
- Multiplication
- Subtraction

Enter the First Value:

Enter the Second Value:

Submit

Reset

Ans = 47



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.