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COMPUTER SCIENCE & ENGINEERING

Experiment 3.3

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Branch: BE-CSE

Semester: 5TH

Subject Name : PBLJ Lab

UID: 20BCS9286

Section/Group: 619 B

Subject Code: 20CSP-321

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{
```



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```
        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
```



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```
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;

            }

        }

    }

}
```



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```
//                                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



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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.