

UNIVERSITY INSTITUTE OF ENGINEERING

Department of Computer Science & Engineering

Subject Name: Project Based Learning in Java Lab

Subject Code: 20CSP321

Submitted to: Er.Parveen Tanwar Sir Submitted by: Pranjal Kumar

Faculty name: Er. Parveen Tanwar Sir **Name**: Pranjal Kumar

UID: 20BCS3504

Section: 607

Group: B

Ex. No	List of Experiments	Conduct (MM: 12)	Viva (MM: 10)	Record (MM: 8)	Total (MM: 30)	Date	Remarks/Signature
	Create an application to save the					03/09/22	
1.2	employee information using arrays. Design and implement a simple inventory control system for a small video rental store.					05/09/22	
1.3	Create a application to calculate interest for FDs, RDs based on certain conditions using inheritance.					10/09/22	
2.1	Create a program to set view of Keys from Java Hashtable.					29/09/22	
	Create a program to show the usage of Sets of Collection interface.					07/10/22	
2.3	Write a Program to perform them basic operations like insert, delete, display, and search in list. List contains String object items where these operations are to be performed.					12/10/22	
2.4	Create a menu-based Java application with the following options. 1.Add an Employee 2.Display All 3.Exit If option 1 is selected, the application should gather details of the employee like employee name, employee id, designation and salary and store it in a file. If option 2 is selected, the application should display all the employee details. If option 3 is selected the application should exit.					13/10/22	
3.1	Create a palindrome creator application for making a longest possible palindrome out of given input string.					03/11/22	
3.2	Create a Servlet/ application with a facility to print any message on web browser.					04/11/22	
	Create JSP application for addition, multiplication and division.					07/11/22	

Department of Computer Science & Engineering Experiment 3.3

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Branch: CSE Section/Group: 607-B

Semester: 5th Date of Performance: 07/11/22

Subject Name: PBLJ Lab Subject Code: 20CSP-321

AIM:

Create JSP application for addition, multiplication and division.

Software/Hardware Requirements:

VS Code or Eclipse

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

JAVA CODE/INPUT:

Index.jsp

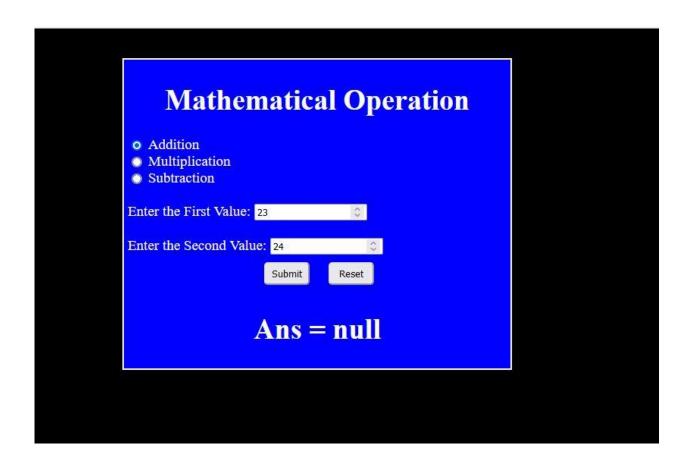
```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Calculator</title>
<style>
body{
    background: black;
    color: white;
}
```

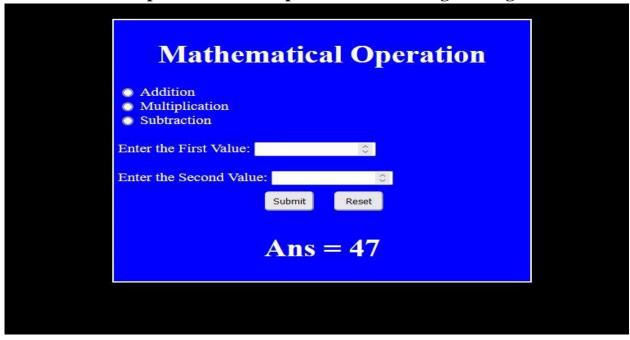
```
h1{
   text-align: center;
.Paramter{
   border: 2px solid white; background: blue;
   padding: 5px;
   max-width: 500px;
   margin: auto;
   font-size: 19px;
}
button{
   position: relative;
   left: 170px;
   margin: 10px; width: 60px; height: 30px;
   cursor:pointer;border-radius:5px;
button:hover{
   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/><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>
                <button value="Reset">Reset
          </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:





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.