UNIVERSITY INSTITUTE OF ENGINEERING

Department of Computer Science & Engineering

Subject Name:

Subject Code: 20CSP 321

Submitted to:

Er. Kirat Kaur

Submitted by:

Name: Rajiv Paul

UID:20BCS1812

Section:20BCS_WM-702

Group: A

INDEX

Ex. No	List of Experiments	Date	Conduct (MM: 12)	Viva (MM: 10)	Record (MM: 8)	Total (MM: 30)	Remarks/ Signature
1.1	Create an application to save the employees information using arrays	16/8/22					
1.2	Design and implement a simple inventory control system for a small video rental store	26/8/22					
1.3	Calculate interest based on the type of the account and the status of the account holder. The rates of interest changes according to the amount (greater than or less than 1 crore), age of account holder (General or Senior citizen) and number of days if the type of account is FD or RD.	6/9/22					
2.1	Create a program to set view of Keys from Java Hashtable.	16/9/22					
2.2	Create a program to show the usage of set of collection interface.	4/10/22					
2.3	Write a program to perform the basic operations like insert delete display and search in list.List contains string object items where the operation are to be performed.	30/9/22					
2.4	Create a menu based java application with the following options I) add an employee ii) display all iii) exit	11/10/22					

3.1	Create a palindrome creator application for making a longest possible palindrome out of given input string	01/11/22						
3.2	Create a Servlet/ application with a facility to print any message on web browser	04/11/22						
3.3	Create JSP application for addition, multiplication and division.	04/11/22						

Experiment 3.2

Student Name: Rajiv Paul   **UID:**20BCS1812
Branch:CSE   **Section/Group:**702A
Semester: 5th   **Date of Performance:** 04/11/2022
Subject Name:PBLJ Lab   **Subject Code:** 20CSP 321

1. **Aim:**

Create JSP application for addition, multiplication and division.

2. Requirements:

Software:

    IntelliJ IDEA, JDK,MacOs,Netbeans

Hardware:

    Macbook(Laptop)

    Ram:4GB(Minimum)

    Processor: M1

3. Code:

Index.jsp

```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

```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("+")) {
```
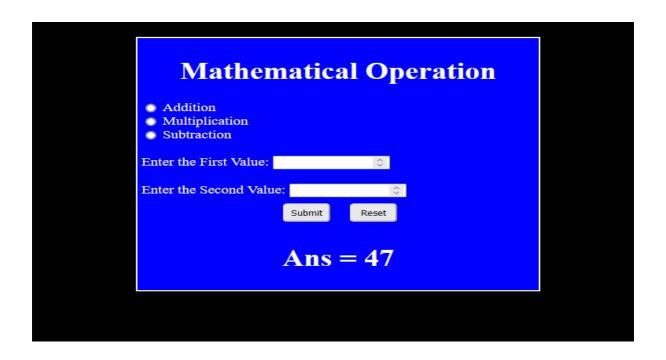
```java
                ans=i1+i2;
            }else if(fun.equals("-")) {
                ans=i1-i2;
            }else if(fun.equals("*")) {
                ans=i1*i2;
            }
//              System.out.println(ans);
            request.setAttribute("ans", ans);

request.getRequestDispatcher("index.jsp").forward(request,response);
        }catch(Exception e) {
            System.out.println(e);
        }


    }


}
```

4. Output:

Learning outcomes (What I have learnt):

1. Learnt about the Servlet .

2. Learnt about jsp and dynamic web project .

3. Learnt about the tomcat server and its integrations with the java.