LAB INDEX

NAME: Vivek Kumar
UID: 21BCS8129
SECTION: WM-20BCS-616/A

SUBJECTNAME: Project Based Learning in Java Lab
SUBJECTCODE: 20CSP-314

Sr. No	Program	Date	Evaluation				Sign
			LW (12)	VV (10)	FW (8)	Total (30)	
1	Create an application to save the employee information using arrays.	09-08-2022					
2	Design and implement a simple inventory control system for a small video rentalstore.	23-08-2022					
3	Create a application to calculate interest for FDs, RDs based on certain conditions using inheritance.	02-09-2022					
4	Create a program to show the usage of Sets of Collection interface.	27-09-2022					
5	Create a program to set view of Keys from Java Hashtable.	27-09-2022					
6	Write a Program to perform the basic operations like insert, delete, display and search in list. List contains String object items where these operations are to be performed.	04-10-2022					
7	Create a menu-based Java application with the following options.1. Add an Employee2.Display All3.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.	14-10-2022					
8	Create a palindrome creator application for making a longest possible palindrome out of given input string.	01-11-2022					
9	Create a Servlet/ application with a facility to print any message on web browser.	10/11/2022					
10	Create JSP application for addition, multiplication and division.	10/11/2022					

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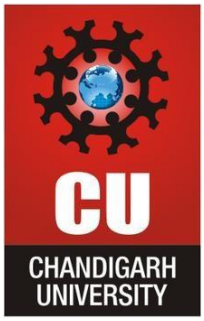
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Submitted By: Vivek Kumar(21BCS8129)	**Submitted To:** Neeru Sharma(E12950)
Subject Name	Project Based Learning in Java Lab
Subject Code	20CSP-321
Branch	Computer Science and Engineering
Semester	5th

Experiment - 10

Student Name: Vivek Kumar **UID: 21BCS8129**
Branch: BE-CSE(LEET) **Section/Group:20BCS-WM-616/A**
Semester: 5th **Date of Performance: 01/11/2022**
Subject Name: Project Based Learning in Java Lab **Subject Code: 20CSP-321**

1. **Aim/Overview of the practical:**
   Create a program that uses XML and html to create a DOM parser.

2. **Task to be done/ Which logistics used:**
   Create a program that uses XML and html to create a DOM parser.

3. **Apparatus / Simulator Used:**
   - Eclipse IDE - (Java)
   - NetBeans.
   - JDK-8 or any.

4. **Programs/ Code:**

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;
```

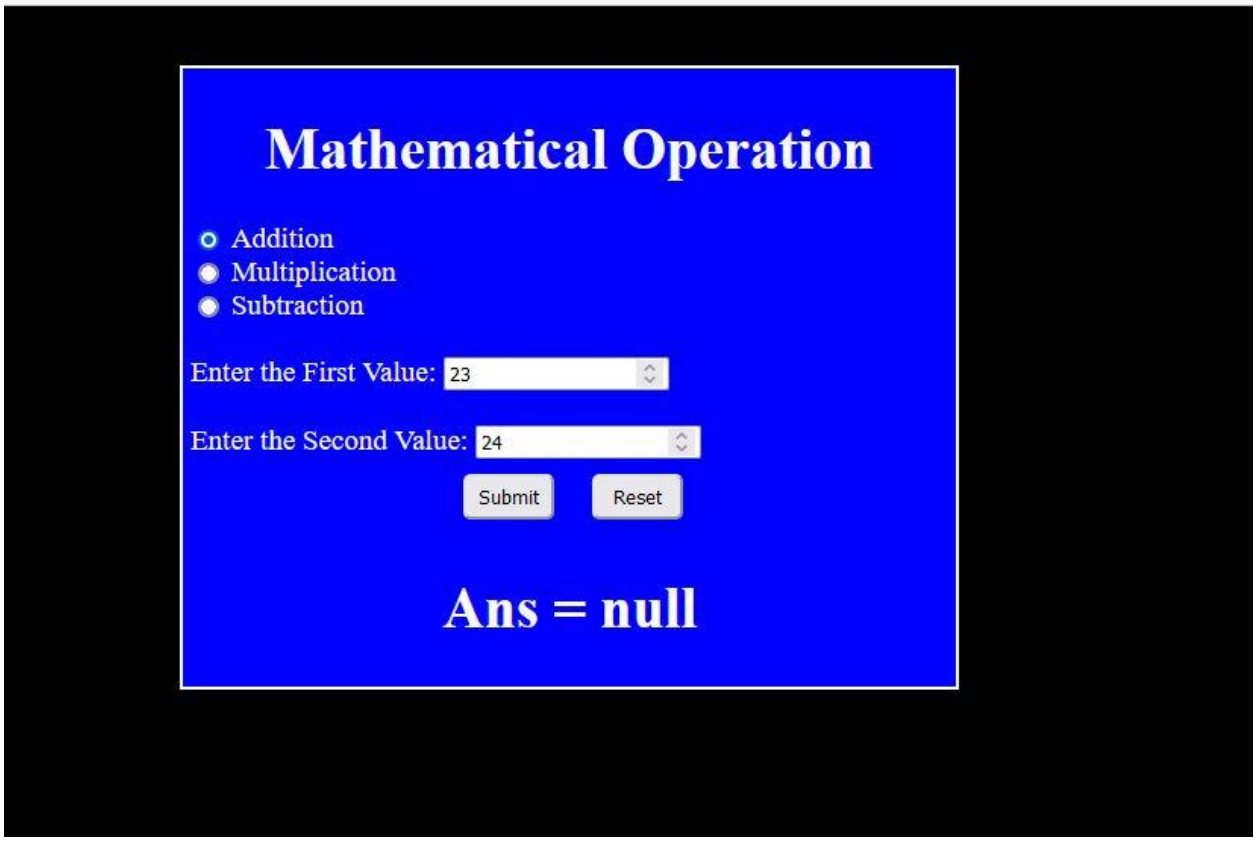
```
    left: 170px;
    margin: 10px; width: 60px;height:30px;
    cursor:pointer;border-radius:5px;
}
button:hover{
    background: orange;
}
</style>
</head>
<body>
      <br/>
      <div class="Paramter">
          <form name="funcitons"
action="<%=request.getContextPath()%>/functions" method="post" >
                <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>
```

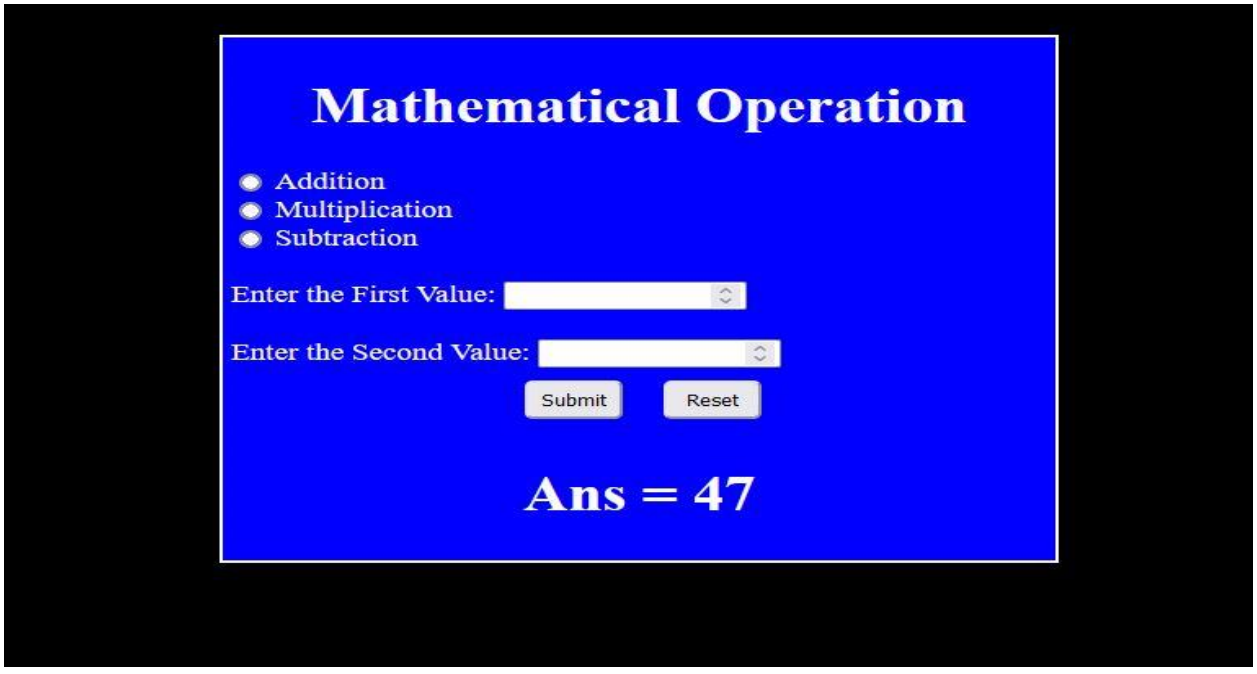
Functions.java

```
package unit3;

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: 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
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.

Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	