

Experiment - 3.3

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Branch: CSE
Semester: 5th
Subject Name: PBLJ Lab

UID: 20BCS9256
Section/Group: 616 'B'
Date of Performance: 03/11/22
Subject Code: 20CSP-321

1. **Aim:** To create a code for a JSP application to demonstrate the expression tag by using mathematical operation.

Software Requirements:
Eclipse IDE - (Java)

2. Code:

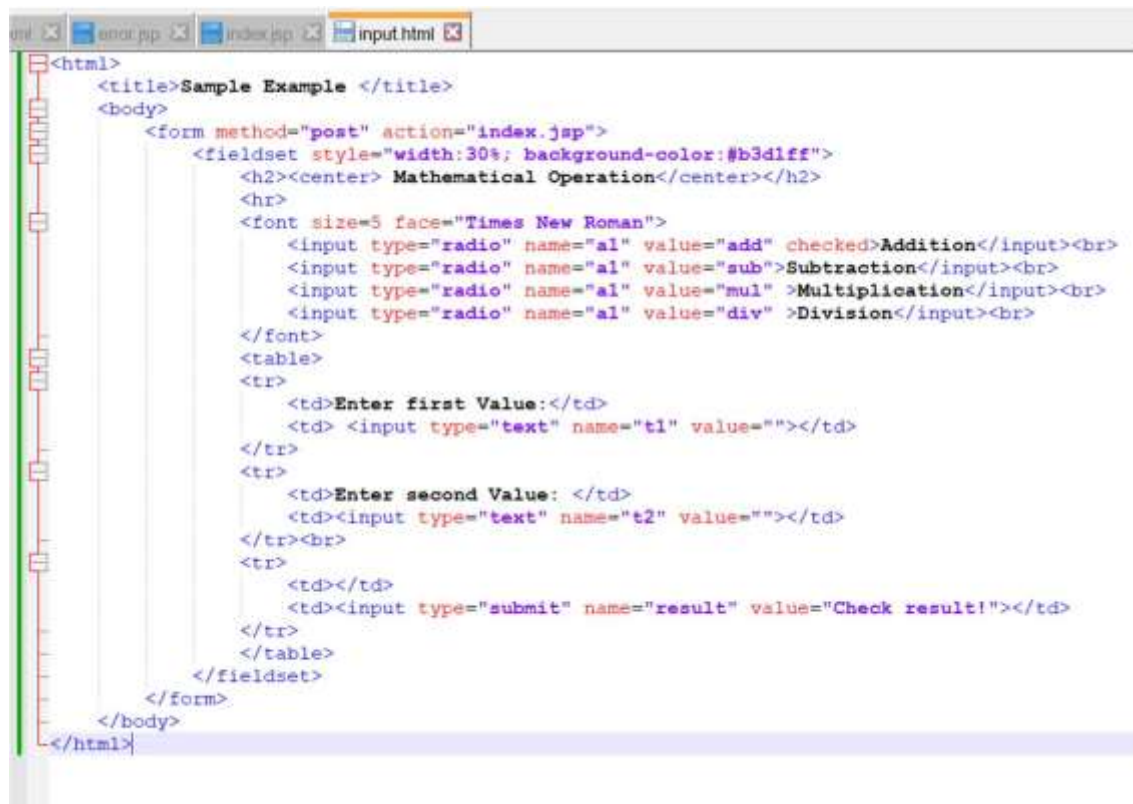
input.html

```
<html>
<title>Sample Example </title>
<body>
  <form method="post" action="index.jsp">
    <fieldset style="width:30%; background-color:#b3d1ff">
      <h2><center> Mathematical Operation</center></h2>
      <hr>
      <font size=5 face="Times New Roman">
        <input type="radio" name="a1" value="add"
checked>Addition</input><br>
        <input type="radio" name="a1" value="sub">Subtraction</input><br>
        <input type="radio" name="a1" value="mul" >Multiplication</input><br>
        <input type="radio" name="a1" value="div" >Division</input><br>
      </font>
      <table>
        <tr>
          <td>Enter first Value:</td>
          <td> <input type="text" name="t1" value=""></td>
```

```

</tr>
<tr>
    <td>Enter second Value: </td>
    <td><input type="text" name="t2" value=""></td>
</tr><br>
<tr>
    <td></td>
    <td><input type="submit" name="result" value="Check result!"></td>
</tr>
</table>
</fieldset>
</form>
</body>
</html>

```



```

<html>
<title>Sample Example </title>
<body>
    <form method="post" action="index.jsp">
        <fieldset style="width:30%; background-color:#b3d1ff">
            <h2><center> Mathematical Operation</center></h2>
            <hr>
            <font size=5 face="Times New Roman">
                <input type="radio" name="a1" value="add" checked>Addition</input><br>
                <input type="radio" name="a1" value="sub">Subtraction</input><br>
                <input type="radio" name="a1" value="mul" >Multiplication</input><br>
                <input type="radio" name="a1" value="div" >Division</input><br>
            </font>
            <table>
            <tr>
                <td>Enter first Value:</td>
                <td> <input type="text" name="t1" value=""></td>
            </tr>
            <tr>
                <td>Enter second Value: </td>
                <td><input type="text" name="t2" value=""></td>
            </tr><br>
            <tr>
                <td></td>
                <td><input type="submit" name="result" value="Check result!"></td>
            </tr>
            </table>
        </fieldset>
    </form>
</body>
</html>

```

index.jsp

```
<% @ page errorPage="error.jsp" %>
<html>
<body>
<H1><center>Result for <%=request.getParameter("a1")%></center></H1>
<%
String num1=request.getParameter("t1");
String num2=request.getParameter("t2");

int i=Integer.parseInt(num1);
int j=Integer.parseInt(num2);

int k=0;
String str=request.getParameter("a1");
if(str.equals("add"))
    k=i+j;
if(str.equals("sub"))
    k=i-j;
if(str.equals("mul"))
    k=i*j;
if(str.equals("div"))
    k=i/j;
%>
Result is: <%=k%>
</body>
</html>
```



```
<%@ page isErrorPage="error.jsp" %>

<html>
<body>
  <H1><center>Result for <%=request.getParameter("a1")%></center></H1>
  <%
    String num1=request.getParameter("t1");
    String num2=request.getParameter("t2");

    int i=Integer.parseInt(num1);
    int j=Integer.parseInt(num2);

    int k=0;
    String str=request.getParameter("a1");
    if(str.equals("add"))
      k=i+j;
    if(str.equals("sub"))
      k=i-j;
    if(str.equals("mul"))
      k=i*j;
    if(str.equals("div"))
      k=i/j;
  %>
  Result is: <%=k%>
</body>
</html>
```

error.jsp

<%@ page isErrorPage="true" %>

<h3>Sorry an exception occurred!</h3>

Exception is: <%= exception %>



```
<%@ page isErrorPage="true" %>

<h3>Sorry an exception occurred!</h3>

Exception is: <%= exception %>
```

web.xml

<web-app>

<servlet>

<servlet-name>xyz</servlet-name>

<jsp-file>/input.html</jsp-file>

```
</servlet>
<servlet-mapping>
    <servlet-name>xyz</servlet-name>
    <url-pattern>/test</url-pattern>
</servlet-mapping>
</web-app>
```



3. Output:

Mathematical Operation

- Addition
- Subtraction
- Multiplication
- Division

Enter first Value:

Enter second Value:

Result is: 200



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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:	