

Experiment No: 10

SOURCE CODE:

index.html

```
<html>
<head>
<title>Calculator App</title>
</head>
<body>
<form action="CalServlet" method="post" >

Enter First Number <input type="text" name="txtN1" ><br> Enter Second Number <input
type="text" name="txtN2" ><br> Select an Operation

<input type="radio" name="opr" value="+">ADDITION
<input type="radio" name="opr" value="*">MULTIPLY <input type="radio" name="opr"
value="/">DIVIDE
<input type="radio" name="opr" value="-"> Substraction
<br> <input type="reset">

<input type="submit" value="Calculate" >

</form>
</body>
</html>
```

CalServlet.java

```
import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
```

```

* Servlet implementation class CalServlet
*/

public class CalServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public CalServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
        ServletException, IOException {
        // TODO Auto-generated method stub
        //response.getWriter().append("Served at: ").append(request.getContextPath());
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();

        out.println("<html><head><title>Servlet
CalServlet</title></head><body>");
        double n1 =
            Double.parseDouble(request.getParameter("txtN1"));

        double n2 = Double.parseDouble(request.getParameter("txtN2"));
        double result =0;
        String opr=request.getParameter("opr");

```

```
if(opr.equals("+")) result=n1+n2;
if(opr.equals("-")) result=n1-n2;
if(opr.equals("*")) result=n1*n2;
if(opr.equals("/")) result=n1/n2;
```

```
out.println("<h1> Result = "+result);
out.println("</body></html>");
```

```
}
```

```
/**
```

```
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
```

```
 */
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
```

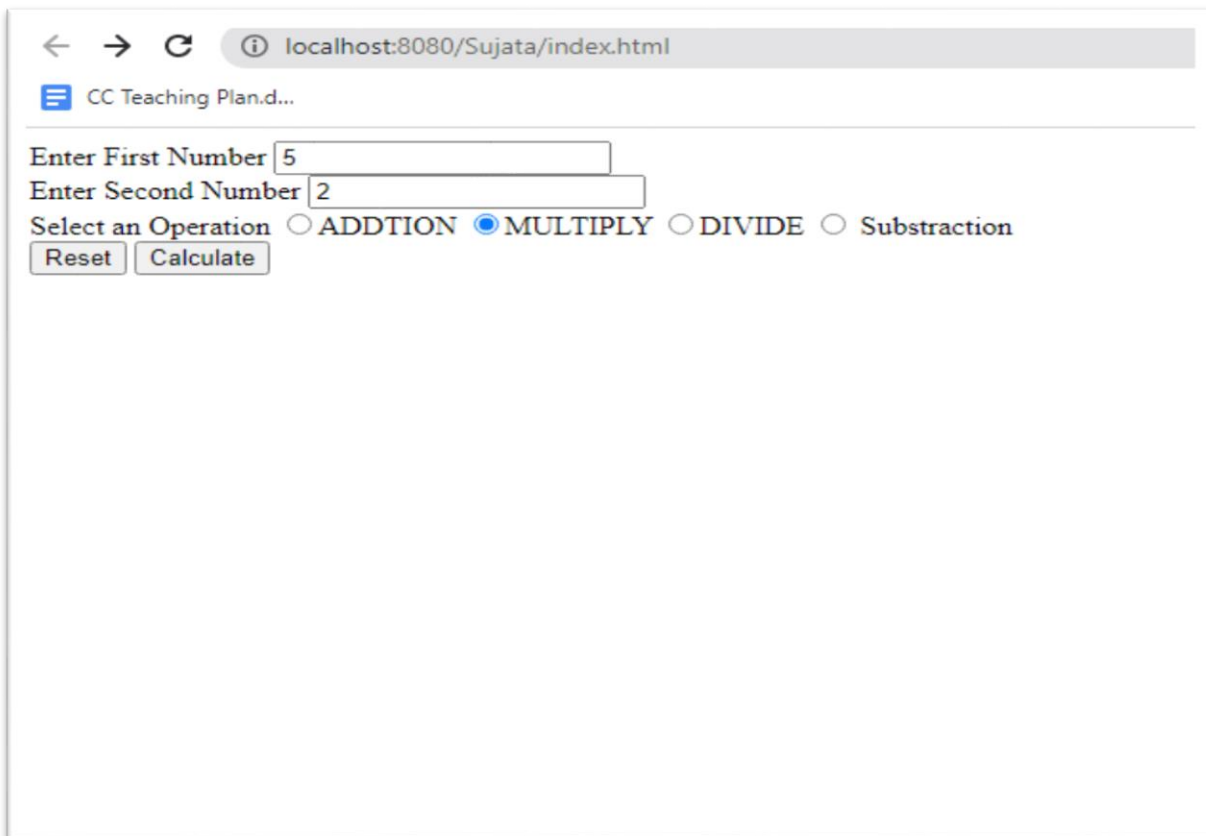
```
    // TODO Auto-generated method stub
```

```
    doGet(request, response);
```

```
}
```

```
}
```

Output:



A screenshot of a web browser window. The address bar shows 'localhost:8080/Sujata/index.html'. The page title is 'CC Teaching Plan.d...'. The form contains two input fields: 'Enter First Number' with the value '5' and 'Enter Second Number' with the value '2'. Below these is a row of radio buttons for 'Select an Operation', with 'MULTIPLY' selected. At the bottom are 'Reset' and 'Calculate' buttons.

Enter First Number

Enter Second Number

Select an Operation ☐ ADDITION ☒ MULTIPLY ☐ DIVIDE ☐ Substraction



A screenshot of a web browser window. The address bar shows 'localhost:8080/Sujata/CalServlet'. The page title is 'CC Teaching Plan.d...'. The main content area displays the result of the calculation in a large, bold font.

Result = 10.0