

**Program-1: Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and quotient.**

```
<!DOCTYPE html>

<html>

<head>

    <title>Experiment-1</title>

    <style type="text/css">

        table, td, th{

            border: 2px solid;

            text-align: center;

            background-color: skyblue;

            margin: auto;

        }

        input{

            text-align: center;

        }

    </style>

    <script type="text/javascript">

        function calc(clicked_id)

        {

            var v1=parseFloat(document.getElementById("value1").value);

            var v2=parseFloat(document.getElementById("value2").value);

            if(isNaN(v1) || isNaN(v2))

                alert("Please enter a valid number");

            else if(clicked_id=="add")

                document.getElementById("answer").value=v1+v2;

            else if(clicked_id=="sub")
```

```

        document.getElementById("answer").value=v1-v2;
    else if(clicked_id=="mul")
        document.getElementById("answer").value=v1*v2;
    else if(clicked_id=="div")
    {
        if(v2==0)
        {
            alert("Please Enter a Non Zero Denominator");
            location.reload();
        }
        else
            document.getElementById("answer").value=v1/v2;
    }
}

```

```

function cls()
{
    value1.value="0";
    value2.value="0";
    answer.value="";
}

```

</script>

</head>

<body>

<table>

```

        <tr>

            <th colspan="4"> Simple Calculator </th>

        </tr>

        <tr>

            <td>Enter Operand-1</td>

            <td> <input type="text" id="value1" value="0"/></td>

            <td>Enter Operand-2</td>

            <td><input type="text" id="value2" value="0"/></td>

        </tr>

        <tr>

            <td><input type="button" value="Addition" id="add"
onclick="calc(this.id)"/> </td>

            <td><input type="button" value="Substraction" id="Sub"
onclick="calc(this.id)"/> </td>

            <td><input type="button" value="Multiplication" id="mul"
onclick="calc(this.id)"/> </td>

            <td colspan="2"><input type="button" value="Division" id="div"
onclick="calc(this.id)"/> </td>

        </tr>

        <tr>

            <td> Result: </td>

            <td> <input type="text" id="answer" value="" disabled/></td>

            <td><input type="button" value="Clear All" id="cls" onclick="cls(this.id)"/>

        </td>

        </tr>

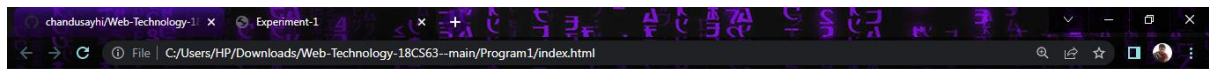
    </table>

</body>

</html>

```

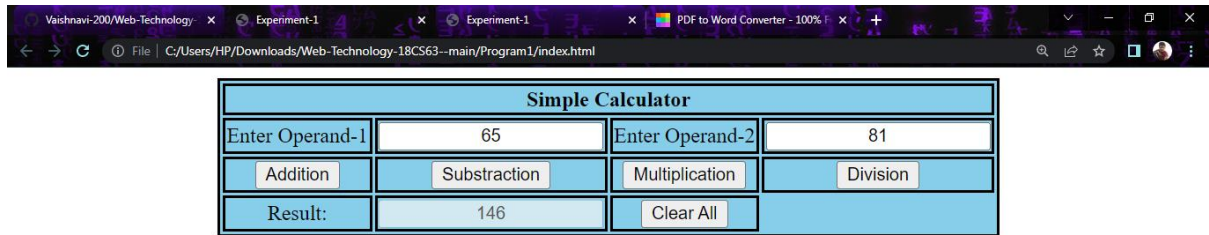
## OUTPUT:



### 1. TEST CASES:

Test No.	Input Parameters	Expected Output	Obtained Output	Remarks
1.	value1=50.56 value2=24.39	Addition =74.95	Addition =74.95	PASS
		Subtraction =26.17	Subtraction =26.17	
		Multiplication=1233.1584	Multiplication=1233.1584	
		Division=2.072980729807298	Division=2.072980729807298	
2.	value1= 0 value2= 45	Addition =45	Addition =45	PASS
		Subtraction =-45	Subtraction =-45	
		Multiplication=0	Multiplication=0	
		Division=0	Division=0	
3.	value1= 45 value2= 0	Addition =45	Addition =45	PASS
		Subtraction =45	Subtraction =45	
		Multiplication=0	Multiplication=0	
		Division=Infinity	Division=Infinity	
4.	value1 = abc value2 = 23	ENTER VALID NUMBER	ENTER VALID NUMBER	PASS
5	value1 = 50 value2 =xyz	ENTER VALID NUMBER	ENTER VALID NUMBER	PASS

2. Your assignment should like below with various test cases. Where, embedded CSS files is used rather Inline CSS.



The screenshot shows a web browser window with the address bar displaying the file path: C:/Users/HP/Downloads/Web-Technology-18CS63--main/Program1/index.html. The browser has several tabs open, including 'Vaishnavi-200/Web-Technology', 'Experiment-1', and 'PDF to Word Converter - 100%'. The main content area displays a 'Simple Calculator' interface. The interface consists of a table with a blue header and a light blue body. The header row contains the text 'Simple Calculator'. The body is divided into four columns. The first column contains the text 'Enter Operand-1'. The second column contains the number '65'. The third column contains the text 'Enter Operand-2'. The fourth column contains the number '81'. Below these input fields, there are four buttons: 'Addition', 'Substraction', 'Multiplication', and 'Division'. The 'Addition' button is highlighted. Below the buttons, there is a row with two cells. The first cell contains the text 'Result:'. The second cell contains the number '146'. To the right of the 'Result' cell, there is a button labeled 'Clear All'.

Simple Calculator			
Enter Operand-1	65	Enter Operand-2	81
Addition	Substraction	Multiplication	Division
Result:	146	Clear All	

