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

```html
<!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>
```

```html
            <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>
```
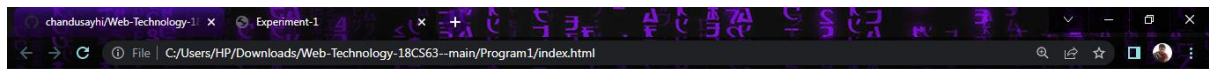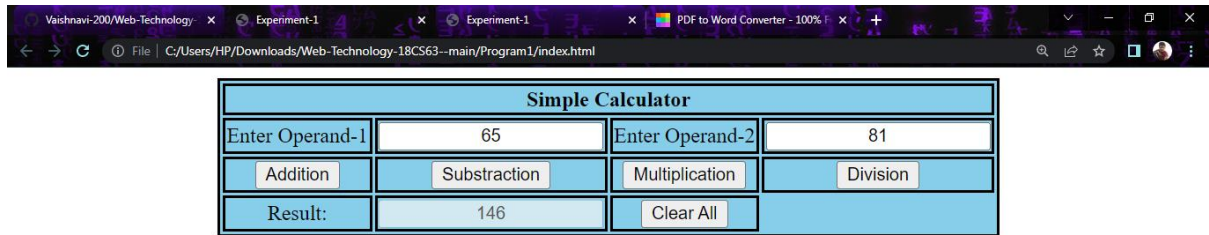
# OUTPUT:



## 1. TEST CASES:

| Test No. | Input Parameters | Expected Output | Obtained Output | Remarks |
|---|---|---|---|---|
| 1. | value1=50.56 value2=24.39 | Addition =74.95 Subtraction =26.17 Multiplication=1233.1584 | Addition =74.95 Subtraction =26.17 Multiplication=1233.1584 | PASS |
| 2. | value1= 0 value2= 45 | Division=2.072980729807298 Addition =45 Subtraction =-45 Multiplication=0 Division=0 | Division=2.072980729807298 Addition =45 Subtraction =-45 Multiplication=0 Division=0 | PASS |
| 3. | value1= 45 value2= 0 | Addition =45 Subtraction =45 Multiplication=0 Division=Infinity | Addition =45 Subtraction =45 Multiplication=0 Division=Infinity | PASS |
| 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.