

**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>

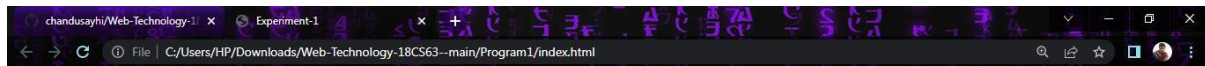
<table>

```

        <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>

```

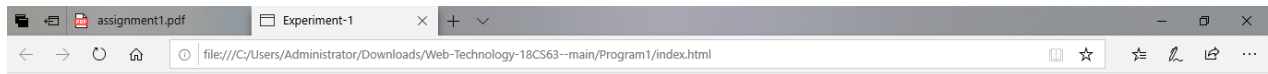
## OUTPUT:



### 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.



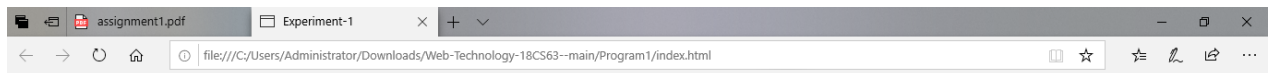
Simple Calculator			
Enter Operand-1	<input type="text" value="0"/>	Enter Operand-2	<input type="text" value="45"/>
Addition	Subtraction	Multiplication	Division
Result:	<input type="text" value="45"/>		<input type="button" value="Clear All"/>



Simple Calculator			
Enter Operand-1	<input type="text" value="0"/>	Enter Operand-2	<input type="text" value="45"/>
Addition	Subtraction	Multiplication	Division
Result:	<input type="text" value="0"/>		<input type="button" value="Clear All"/>



Simple Calculator			
Enter Operand-1	<input type="text" value="0"/>	Enter Operand-2	<input type="text" value="45"/>
Addition	Subtraction	Multiplication	Division
Result:	<input type="text" value="0"/>		<input type="button" value="Clear All"/>

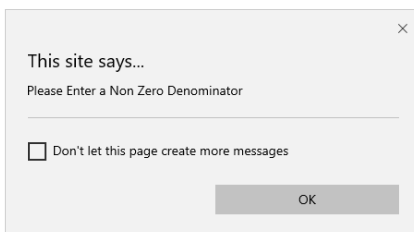
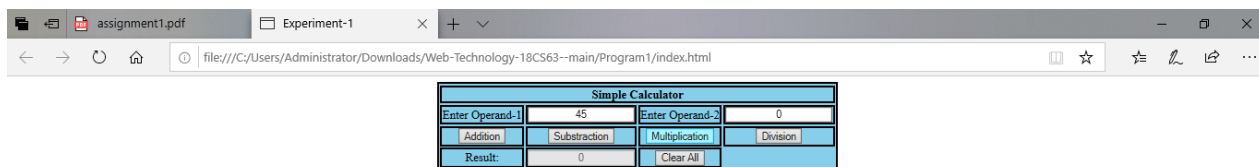


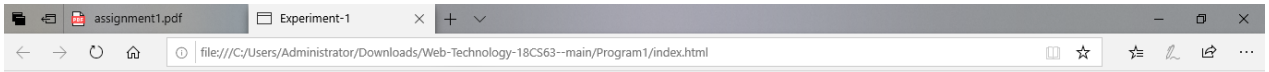
Simple Calculator			
Enter Operand-1	<input type="text" value="0"/>	Enter Operand-2	<input type="text" value="45"/>
Addition	Subtraction	Multiplication	Division
Result:	<input type="text" value="0"/>	Clear All	



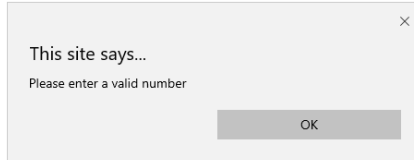
Simple Calculator			
Enter Operand-1	<input type="text" value="45"/>	Enter Operand-2	<input type="text" value="0"/>
Addition	Subtraction	Multiplication	Division
Result:	<input type="text" value="45"/>	Clear All	



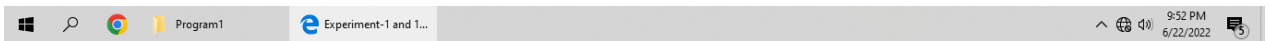
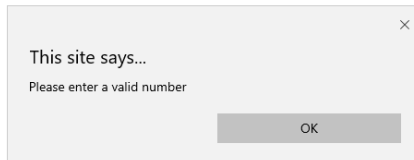




Simple Calculator			
Enter Operand-1	abc	Enter Operand-2	23
Addition	Subtraction	Multiplication	Division
Result:		Clear All	



Simple Calculator			
Enter Operand-1	50	Enter Operand-2	xyz
Addition	Subtraction	Multiplication	Division
Result:		Clear All	





assignment1.pdf Experiment-1

file:///C:/Users/Administrator/Downloads/Web-Technology-18CS63--main/Program1/index.html

Simple Calculator			
Enter Operand-1	50.56	Enter Operand-2	24.39
Addition	Subtraction	Multiplication	Division
Result:	74.95	Clear All	

Program1 Experiment-1 and 1...

9:43 PM 6/22/2022

assignment1.pdf Experiment-1

file:///C:/Users/Administrator/Downloads/Web-Technology-18CS63--main/Program1/index.html

Simple Calculator			
Enter Operand-1	50.56	Enter Operand-2	24.39
Addition	Subtraction	Multiplication	Division
Result:	1233.1584	Clear All	

Program1 Experiment-1 and 1...

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assignment1.pdf Experiment-1

file:///C:/Users/Administrator/Downloads/Web-Technology-18CS63--main/Program1/index.html

Simple Calculator			
Enter Operand-1	50.56	Enter Operand-2	24.39
Addition	Subtraction	Multiplication	Division
Result:	2.072980729807298		Clear All

Windows taskbar showing icons for Windows, Search, Chrome, Program1, and Experiment-1 and 1... The system clock shows 9:46 PM on 6/22/2022.