

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:

Simple Calculator			
Enter Operand-1	0	Enter Operand-2	0
Addition	Substraction	Multiplication	Division
Result:		Clear All	

Test case 1 : value1 = 50.56 value2=24.39

Experiment-1 x +
File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

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

Experiment-1 x +
File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

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

Experiment-1 x +
File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

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

Test case 2: value1 = 0 value2=45

Experiment-1 x +
File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

Simple Calculator			
Enter Operand-1	0	Enter Operand-2	45
Addition	Substraction	Multiplication	Division
Result:	45	Clear All	

Experiment-1 x +
File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

Simple Calculator			
Enter Operand-1	0	Enter Operand-2	45
Addition	Substraction	Multiplication	Division
Result:	0	Clear All	

Experiment-1 x +
File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

Simple Calculator			
Enter Operand-1	0	Enter Operand-2	45
Addition	Substraction	Multiplication	Division
Result:	0	Clear All	

Test case 3: value1 = 45 value2=0

Experiment-1

File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

Simple Calculator			
Enter Operand-1	45	Enter Operand-2	0
Addition	Substraction	Multiplication	Division
Result:	45	Clear All	

Experiment-1

File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

Simple Calculator			
Enter Operand-1	45	Enter Operand-2	0
Addition	Substraction	Multiplication	Division
Result:	0	Clear All	

Experiment-1

File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

Simple Calculator			
Enter Operand-1	45	Enter Operand-2	0
Addition	Substraction	Multiplication	Division
Result:		Clear All	

This page says

Please Enter a Non Zero Denominator

OK

Test case 4: value1 = abc value2=23

Experiment-1

File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

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

Experiment-1

File | C:/Users/shail/Desktop/web%20assignment/assignment1/index.html

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

This page says

Please enter a valid number

OK

Test case 5: value1 = 50 value2=xyz

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

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

This page says

Please enter a valid number

OK