

Exp1: Simple Calculator using Java script

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

Aim:

To Write a JavaScript to design a simple calculator

Algorithm/Procedure:

1. Create a webpage with the name program1.html.
2. Create table for Calculator using Html code.
3. Create html form and input field for each entry.

PROGRAM:

```
<!DOCTYPE
HTML> <html>
<head>
    <style>
        table, td, th
        {
            border: 1px solid black;
            width: 33%;
            text-align: center;
            background-color: DarkGray;
            border-collapse: collapse;
        }
        table { margin: auto; }
        input { text-align: right; }
    </style>
    <script type="text/javascript">
        function calc(clicked_id)
        {
            Var val1 =
            parseFloat(document.getElementById("value1").value);
```

```
var val2 =
parseFloat(document.getElementById("value2").value);
if(isNaN(val1)||isNaN(val2))
    alert("ENTER VALID NUMBER");
else if(clicked_id=="add")
    document.getElementById("answer").value=val1+val
2;
else if(clicked_id=="sub")
    document.getElementById("answer").value=val1-
val2;
else if(clicked_id=="mul")
    document.getElementById("answer").value=val1*val2;
    else if(clicked_id=="div")
    document.getElementById("answer").value=val1/val2;
}
function cls()
{
    value1.value="0";
    value2.value="0";
    answer.value="";
}
</script>
</head>
<body>
<table>
<tr><th colspan="4"> SIMPLE CALCULATOR </th></tr>
<tr><td>value1</td><td><input type="text" id="value1"
value="0"/></td> <td>value2</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="Subtraction" id = "sub"
onclick="calc(this.id)"/></td>
<td><input type="button" value="Multiplication" id = "mul"
```

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onclick="calc(this.id)"/></td>
<td><input type="button" value="Division" id="div"
onclick="calc(this.id)"/></td></tr>
<tr><td>Answer:</td><td><input type="text" id="answer" value=""
disabled/></td>
<td colspan="2"><input type="button" value="CLEAR ALL"
onclick="cls()"/></td></tr>
</table>
</body>
</html>

```

Sample input and Output:

SIMPLE CALCULATOR			
value1	<input type="text"/>	value2	<input type="text"/>
Addition	Subtraction	Multiplication	Division
Answer:	<input type="text"/> <input type="button" value="CLEAR ALL"/>		

Sample 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 Division=2.072980729807298	Addition =74.95 Subtraction =26.17 Multiplication=1233.1584 Division=2.072980729807298	PASS
2.	value1= 0 value2= 45	Addition =45 Subtraction =-45 Multiplication=0 Division=0	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