

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

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Program_1-Simplae JS Calculator</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><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 Cases 1:

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

Test Case 1 - Addition

Simple Calculator			
Enter Operand-1	50.56	Enter Operand-2	24.39
Addition	Substraction	Multiplication	Division
Result:	26.17	Clear All	

Test Case 1 - Subtraction

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

Test Case 1 - Multiplication

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

Test Case 1 - Division

Test Case 2:

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

Test Case 2 - Addition

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

Test Case 2 - Subtraction

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

Test Case 2 – Multiplication & Division

Test Case 3:

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

Test Case 3 - Addition

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

Test Case 3 - Subtraction

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

Test Case 3 - Multiplication

Simple Calculator			
Enter Operand-1	127.0.0.1:5500	Enter Operand-2	0
Addition	Substraction	Multiplication	Division
Result:		Clear All	

127.0.0.1:5500 says

Please Enter a Non Zero Denominator

OK

Test Case 3 - Division

Test Case 4:

Simple Calculator			
Enter Operand-1	127.0.0.1:5500	Enter Operand-2	0
Addition	Substraction	Multiplication	Division
Result:		Clear All	

127.0.0.1:5500 says

Please enter a valid number

OK

Test Case 4 – Addition, Subtraction, Multiplication & Division

Test Case 5:

Simple Calculator			
Enter Operand-1	127.0.0.1:5500	Enter Operand-2	0
Addition	Substraction	Multiplication	Division
Result:		Clear All	

127.0.0.1:5500 says

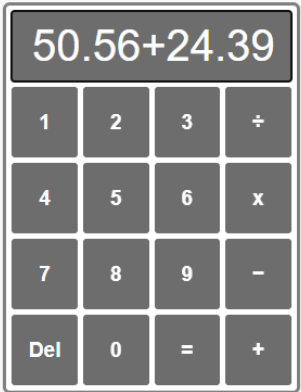
Please enter a valid number

OK

Test Case 5 - Addition, Subtraction, Multiplication & Division

Challenge Output:

Simple Calculator Program



Output of Program 1 Challenge.