

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>
```

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        <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="Subtraction" 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	Subtraction	Multiplication	Division
Result:		Clear All	

Test case 1 : value1 = 50.56 value2=24.39

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

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

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

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



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

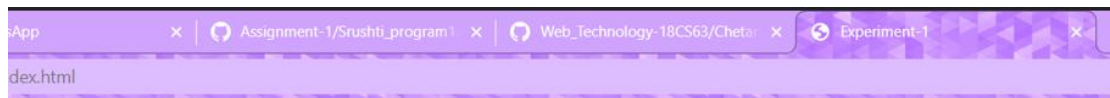


Simple Calculator			
Enter Operand-1	0	Enter Operand-2	45
Addition	Substraction	Multiplication	Division
Result:	0	Clear All	

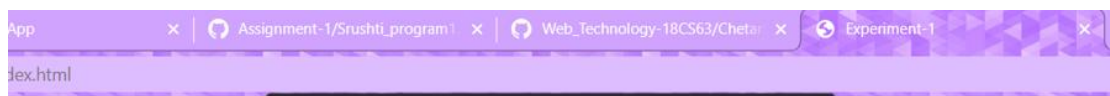
Test case 3: value1 = 45 value2=0



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



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

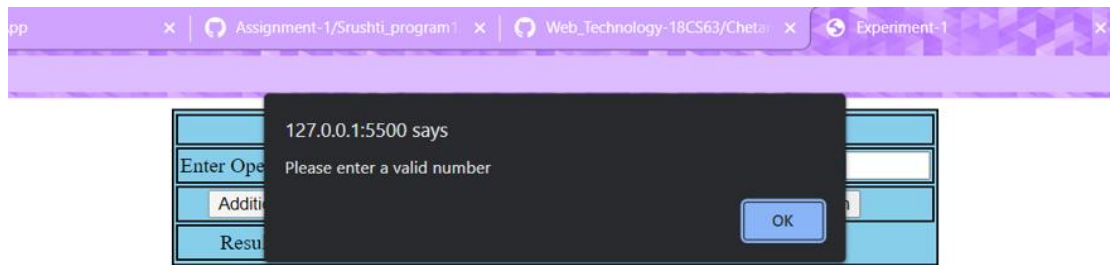


Simple Calculator			
Enter Operand-1		Enter Operand-2	
Addition	Substraction	Multiplication	Division
Result:		Clear All	

Test case 4: value1 = abc value2=23



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



Test case 5: value1 = 50 value2=xyz

