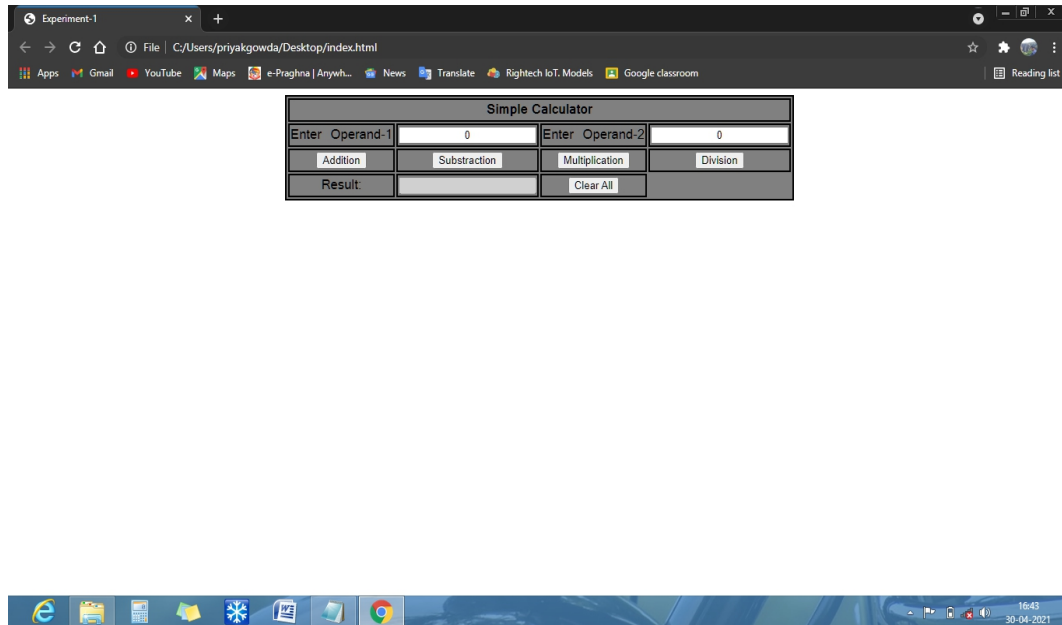# Program-1: *Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and quotient.*

```html
<!DOCTYPE html>
<html>
<head>
<title>Experiment-1</title>
<style type="text/css">
table, td, th{
border: 2px solid;
text-align: center;
background-color: grey;
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>
```

```html
<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:

testno	parameters	Expected output	Obtained output	remarks
1	Value1=84.76 Value2=45.45	Add:130.21 Sub: 39.31 Mul:3852.342 Div:1.86490	Add:130.21 Sub: 39.31 Mul:3852.342 Div:1.86490	PASS
2	Value1=646 Value2=989	Add:1635 Sub: -343 Mul:638894 Div:0.6531850	Add:1635 Sub: -343 Mul:638894 Div:0.6531850	PASS
3	Value1=0.336 Value2=0.453	Add:0.789 Sub: -0.117 Mul:0.152208 Div:0.741721	Add:0.789 Sub: -0.117 Mul:0.152208 Div:0.741721	PASS
4	Value1= 575 Value2= 0	Add:575 Sub:575 Mul:0 Div:infinity	Add:575 Sub:575 Mul:0 Div:infinity	PASS