

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

**Usn:1jt18is021**

**Name: darshan G**

**Branch: ISE,6<sup>TH</sup> SEM**

```
<!DOCTYPE html>
<html>
  <head>
    <script>
      //function that display value
      function dis(val)
      {
        document.getElementById("result").value+=val
      }

      //function that evaluates the digit and return result
      function solve()
      {
        let x = document.getElementById("result").value
        let y = eval(x)
        document.getElementById("result").value = y
      }

      //function that clear the display
      function clr()
      {
        document.getElementById("result").value = ""
      }
    </script>
    <!-- for styling -->
    <style>

      input[type="button"]
      {
        background-color:red;
        color: black;
        border: solid 2px;
        width: 210px;

        font-weight: bold;
      }

      input[type="text"]
```

```

    {
    background-color:white;
    border: solid black 2px;
    width:100%;
    height: 30px;

    }
</style>
<h1 style="text-align: center;">
    <samp1 style="font-variant: bold; color:red ;border: outset; color: red;">"SIMPLE
CALCULATOR"</samp1>
</h1>
<h2 style="text-align:center;">
    <samp2 style="font-style:italic; background: red;color: white;border: inset;">ljt18is021
darshan g</samp2>
</h2>
</head>
<!-- create table -->
<body>

```

```

<table border="1" align="center">

    <tr>
        <td colspan="3"><input type="text" id="result"/></td>
        <!-- clr() function will call clr to clear all value -->
        <td><input type="button" value="clear" onclick="clr()"/> </td>
    </tr>
    <tr>
        <!-- create button and assign value to each button -->
        <!-- dis("1") will call function dis to display value -->
        <td><input type="button" value="1" onclick="dis('1')"/> </td>
        <td><input type="button" value="2" onclick="dis('2')"/> </td>
        <td><input type="button" value="3" onclick="dis('3')"/> </td>
        <td><input type="button" value="/" onclick="dis('/')"/> </td>
    </tr>
    <tr>
        <td><input type="button" value="4" onclick="dis('4')"/> </td>
        <td><input type="button" value="5" onclick="dis('5')"/> </td>
        <td><input type="button" value="6" onclick="dis('6')"/> </td>
        <td><input type="button" value="-" onclick="dis('-')"/> </td>
    </tr>

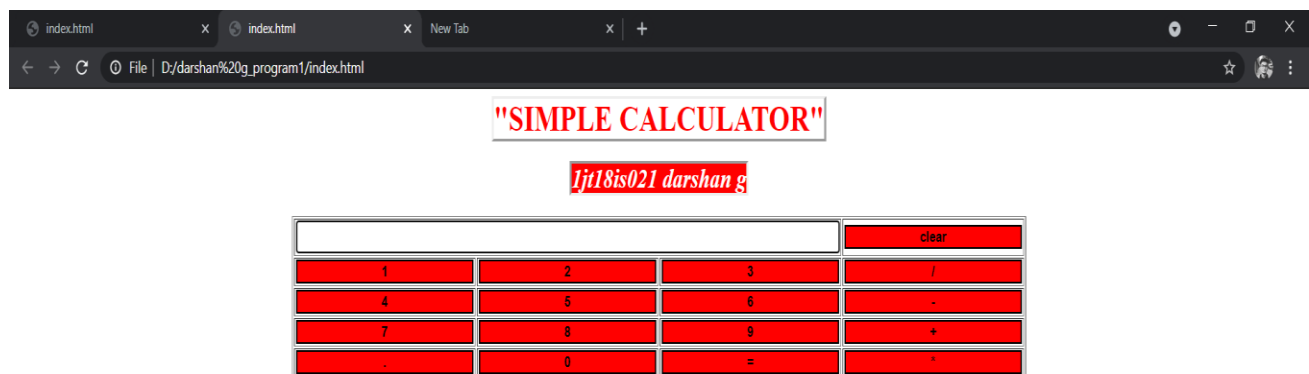
```

```

</tr>
<tr>
  <td><input type="button" value="7" onclick="dis('7')"/> </td>
  <td><input type="button" value="8" onclick="dis('8')"/> </td>
  <td><input type="button" value="9" onclick="dis('9')"/> </td>
  <td><input type="button" value="+" onclick="dis('+')"/> </td>
</tr>
<tr>
  <td><input type="button" value="." onclick="dis('.')"/> </td>
  <td><input type="button" value="0" onclick="dis('0')"/> </td>
  <!-- solve function call function solve to evaluate value -->
  <td><input type="button" value="=" onclick="solve()"/> </td>
  <td><input type="button" value="*" onclick="dis('*')"/> </td>
</tr>
</table>
</body>
</html>

```

Output;

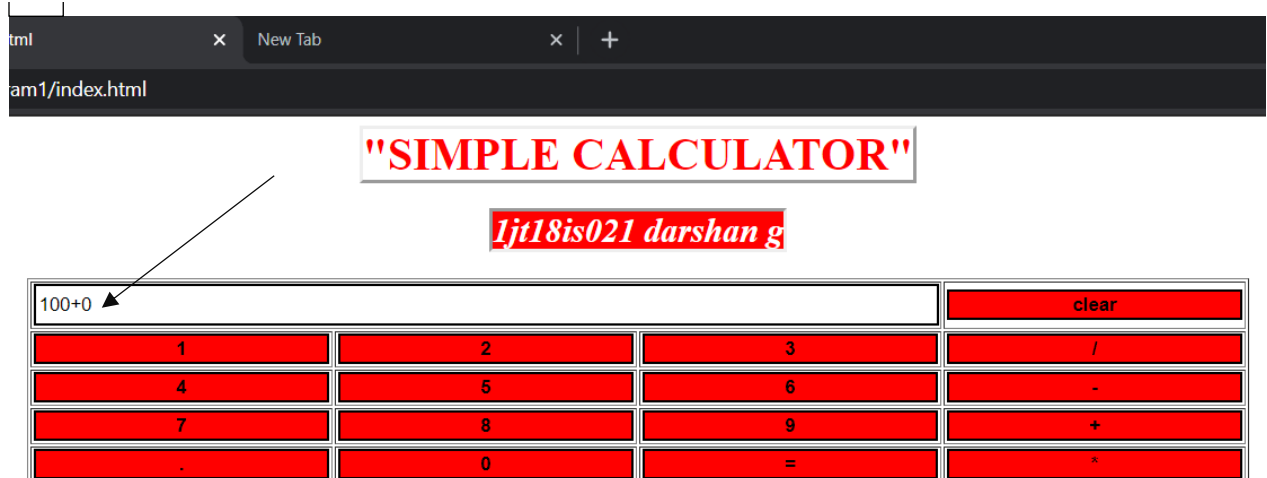


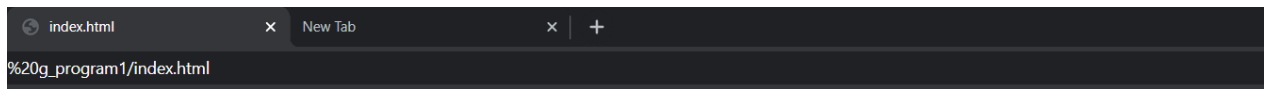
## 4. Test cases

Test No.	Input Parameters	Expected Output	Obtained Output	Remarks
1.	Value x=0 value y=100	Addition =100	Addition = 100	PASS
		Subtraction =-100	Subtraction =-100	
		Multiplication=0	Multiplication=0	
		Division=0	Division = 0	
2.	Value x= 25.5 Value y= 65.5	Addition = 91	Addition = 91	PASS
		Subtraction = -40	Subtraction =-40	
		Multiplication= 1670.25	Multiplication=1670.25	
		Division=0.38931297709	Division=0.38931297709	
3.	Value x= 75 value y= 1.2	Addition =76.2	Addition =76.2	PASS
		Subtraction =73.8	Subtraction =73.8	
		Multiplication=90	Multiplication=90	
		Division= 62.5	Division=62.5	
4.	Value x = abc value y = 23	Wrong entry	Wrong entry	PASS
5.	Value x= 50 value y =xyz	Wrong entry	Wrong entry	PASS

## Screen shots with test case

### 1.test case in (addition)



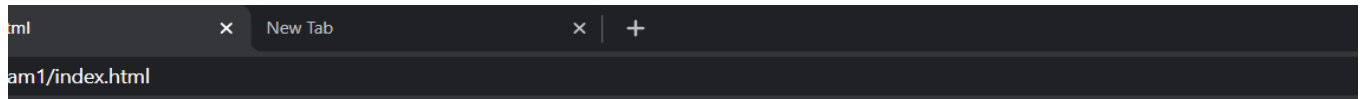


## "SIMPLE CALCULATOR"

*1jt18is021 darshan g*

100			clear
1	2	3	/
4	5	6	-
7	8	9	+
.	0	=	*

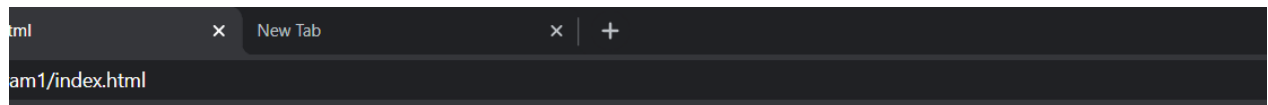
### 2.test case in (division)



## "SIMPLE CALCULATOR"

*1jt18is021 darshan g*

25.5/65.5			clear
1	2	3	/
4	5	6	-
7	8	9	+
.	0	=	*



## "SIMPLE CALCULATOR"

*1jt18is021 darshan g*

0.3893129770992366			clear
1	2	3	/
4	5	6	-
7	8	9	+
.	0	=	*

3.test case showing (wrong entry)

ml

×

New Tab

×

+

am1/index.html

"SIMPLE CALCULATOR"

*Ijt18is021 darshan g*

abc+23

clear

1	2	3	/
4	5	6	-
7	8	9	+
.	0	=	*

ml

×

New Tab

×

+

am1/index.html

"SIMPLE CALCULATOR"

*Ijt18is021 darshan g*

wrong entry

clear

1	2	3	/
4	5	6	-
7	8	9	+
.	0	=	*

-----Thank you-----