

Vaishnavi Desai – 2TG19CS055

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();
                }
            }
        }
    </script>
</head>
<body>
```

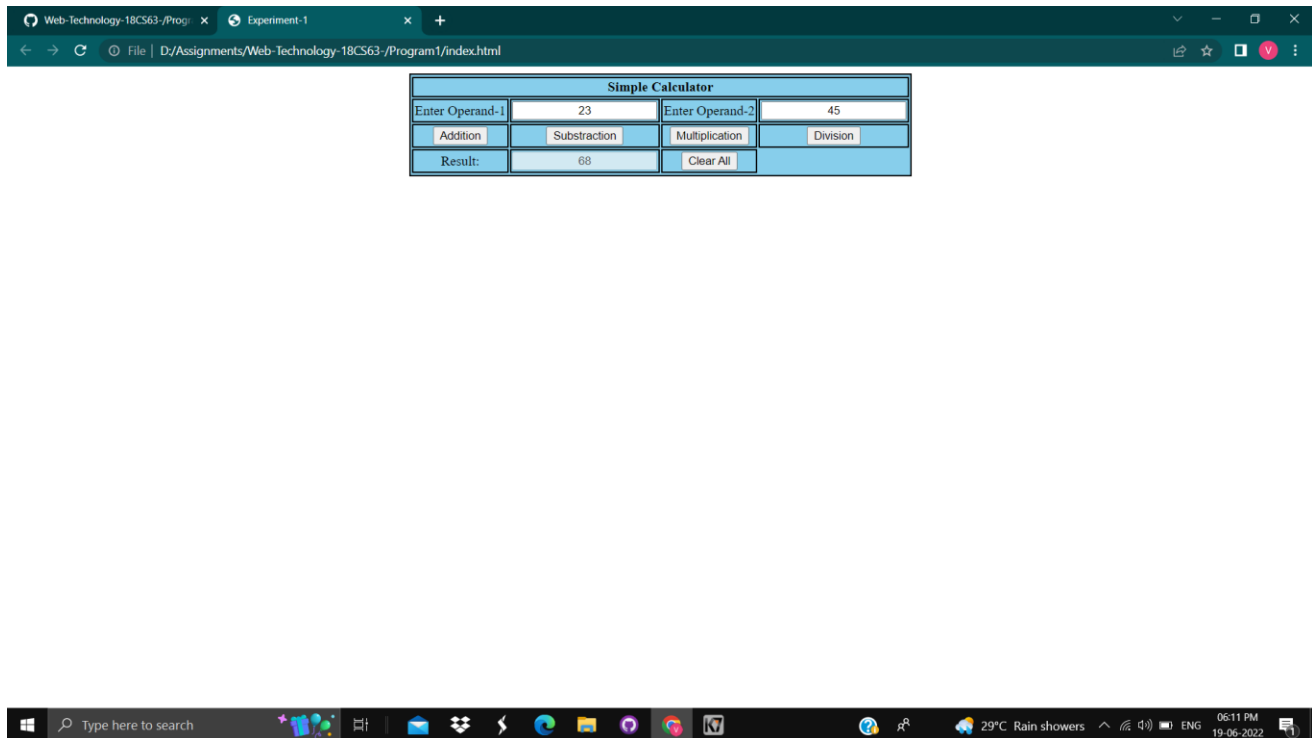
```

        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 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:



1. Test cases:

Test No.	Input Parameters	Expected Output	Obtained Output	Remarks
1.	value1=50.56 value2=24.39	Addition =74.95	Addition =74.95	PASS
		Subtraction =26.17	Subtraction =26.17	
		Multiplication=1233.1584	Multiplication=1233.1584	
		Division=2.072980729807298	Division=2.072980729807298	
2.	value1= 0 value2= 45	Addition =45	Addition =45	PASS
		Subtraction =-45	Subtraction =-45	
		Multiplication=0	Multiplication=0	
		Division=0	Division=0	
3.	value1= 45 value2= 0	Addition =45	Addition =45	PASS
		Subtraction =45	Subtraction =45	
		Multiplication=0	Multiplication=0	
		Division=Infinity	Division=Infinity	
4.	value1 = abc value2 = 23	ENTER VALID NUMBER	ENTER VALID NUMBER	PASS
5	value1 = 50 value2 =xyz	ENTER VALID NUMBER	ENTER VALID NUMBER	PASS

- Your assignment should like below with various test cases. Where, embedded CSS files is used rather Inline CSS.

Simple Calculator			
Enter Operand-1	23	Enter Operand-2	45
Addition	Substraction	Multiplication	Division
Result:	68	Clear All	