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>
<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>

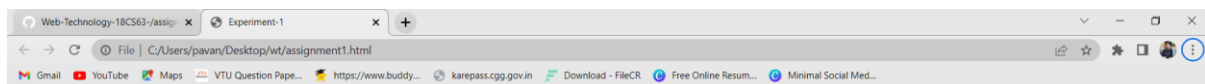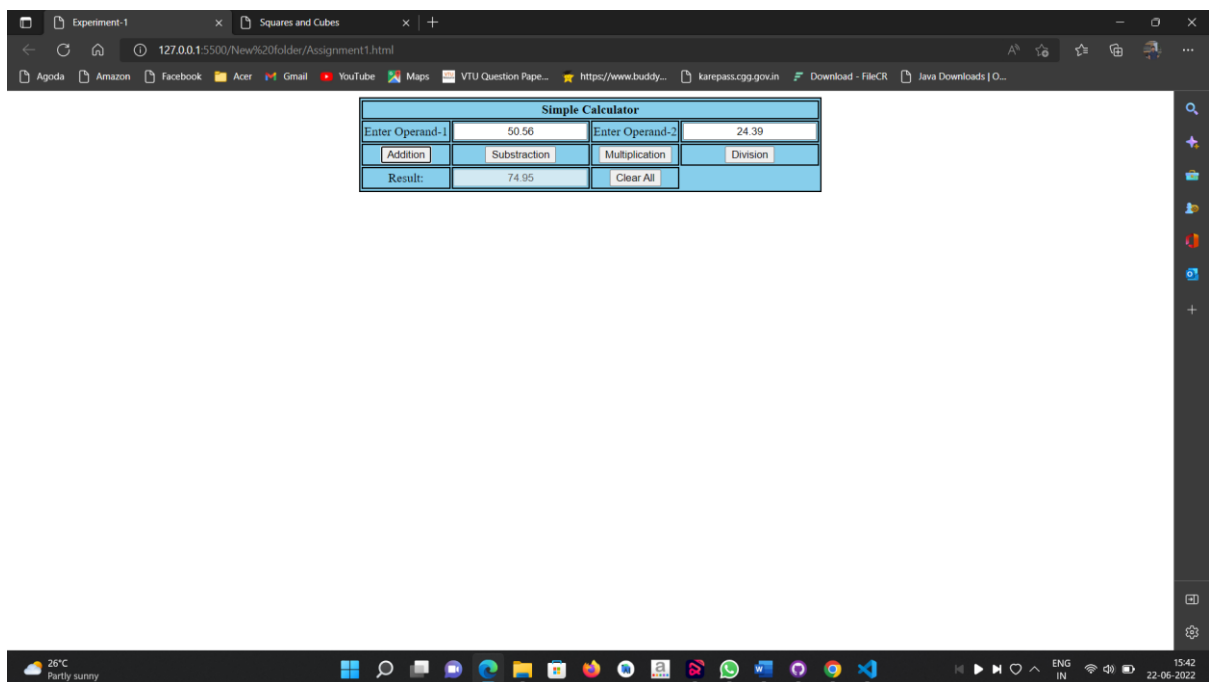<td><input type="button" value="Clear All" id="cls"

onclick="cls(this.id)"/> </td>

</tr>

</table>

</body>

</html>

OUTPUT:

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

127.0.0.1:5500/New%20folder/Assignment1.html

Simple Calculator

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