**Practical 1**

**Aim**: Program to design a calculator along with data validation in JavaScript using variable, functions and control structures.

**INPUT**

<!DOCTYPE html>

<html>

<head>

<title>Javascript Calulator</title>

</head>

<style>

.title{

border-radius: 5px;

margin-bottom: 5px;

text-align:center;

width: 210px;

color:#fffff;

border: solid black 2px;

}

input[type="button"]

{

border-radius: 5px;

color: black;

width:100%;

}

input[type="text"]

{

border-radius: 5px;

text-align: right;

background-color:white;

border-color: black;

width:100%

}

</style>

<script >

//function for displaying values

function dis(val)

{

document.getElementById("edu").value+=val

}

//function for evaluation

function solve()

{

let x = document.getElementById("edu").value

let y = eval(x)

document.getElementById("edu").value = y

}

//function for clearing the display

function clr()

{

document.getElementById("edu").value = ""

}

</script>

<body>

<div class = title >Calculator</div>

<table border="1">

<tr>

<td><input type="button" value="C" onclick="clr()"/> </td>

<td colspan="3"><input type="text" id="edu"/></td>

<!-- clr() function will call clr to clear all value -->

</tr>

<tr>

<!-- creating buttons and assigning values-->

<td><input type="button" value="+" onclick="dis('+')"/> </td>

<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>

</tr>

<tr>

<td><input type="button" value="-" onclick="dis('-')"/> </td>

<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>

</tr>

<tr>

<td><input type="button" value="\*" onclick="dis('\*')"/> </td>

<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>

</tr>

<tr>

<td><input type="button" value="/" onclick="dis('/')"/> </td>

<td><input type="button" value="." onclick="dis('.')"/> </td>

<td><input type="button" value="0" onclick="dis('0')"/> </td>

<!-- Evaluating function call eval()-->

<td><input type="button" value="=" onclick="solve()"/> </td>

</tr>

</table>

</body>

</html>

**OUTPUT**

 

 

 

 