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BRANCH & SEM: (CSE) 1ST

BATCH: A3

PRACTICAL NO: 4

Aim: Design a calculator to perform basic mathematical operations using JavaScript. Add two buttons: Clear, +/- (to represent positive and negative numbers).

CODE:**CODE FOR HTML AND JAVASCRIPT:**

```

calc.html x # style.css
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="style.css">
  <title>My First Project-calculator</title>
</head>
<body>
  <div class="container">
    <div class="Calc">
      <form>
        <h1>Calculator</h1>
        <div class="display">
          <input type="text" name="display">
        </div>
        <div>
          <input type="button" value="AC" onclick="display.value = ''" class="firstRow">
          <input type="button" value="DE" onclick="display.value = display.value.toString().slice(0, -1)" class="firstRow">
          <input type="button" value="%" onclick="display.value += '%'" class="firstRow">
          <input type="button" value="/" onclick="display.value += '/'" class="firstRow">
        </div>
        <div>
          <input type="button" value="7" onclick="display.value += '7'">
          <input type="button" value="8" onclick="display.value += '8'">
          <input type="button" value="9" onclick="display.value += '9'">
          <input type="button" value="*" onclick="display.value += '*'" class="lastColumn">
        </div>
        <div>
          <input type="button" value="4" onclick="display.value += '4'">
          <input type="button" value="5" onclick="display.value += '5'">
          <input type="button" value="6" onclick="display.value += '6'">
          <input type="button" value="-" onclick="display.value += '-'" class="lastColumn">
        </div>
        <div>
          <input type="button" value="1" onclick="display.value += '1'">
          <input type="button" value="2" onclick="display.value += '2'">
          <input type="button" value="3" onclick="display.value += '3'">
          <input type="button" value="+" onclick="display.value += '+'" class="lastColumn">
        </div>
        <div>
          <input type="button" value="00" onclick="display.value += '00'">
          <input type="button" value="0" onclick="display.value += '0'">
          <input type="button" value="." onclick="display.value += '.'">
          <input type="button" value="=" id="equal" onclick="display.value = eval(display.value)">
        </div>
      </form>
    </div>
  </div>
</body>
</html>

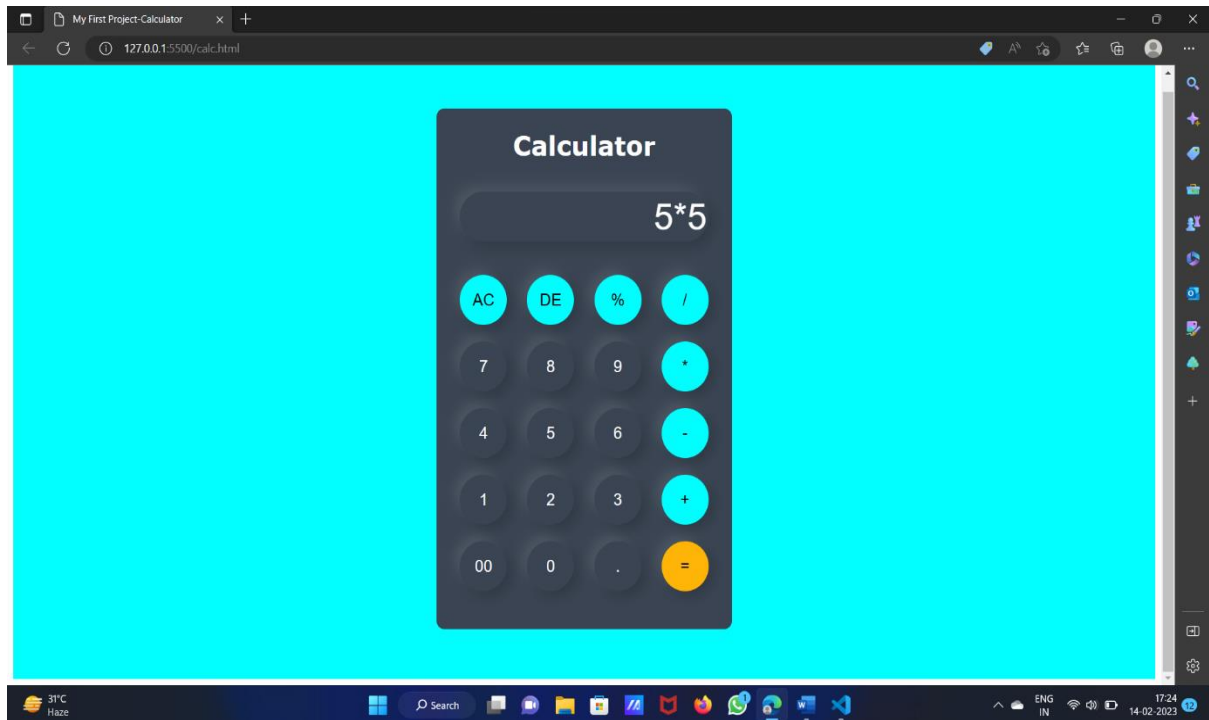
```

CODE FOR CSS:

```
calc.html # style.css X
# style.css > .container
1  .container{
2      box-sizing: border-box;
3      margin: 0;
4      padding: 0;
5      font-family: Verdana, Geneva, Tahoma, sans-serif;
6  }
7  .container{
8      width: 100%;
9      height: 100vh;
10     background-color: cyan;
11     display: flex;
12     align-items: center;
13     justify-content: center;
14 }
15 .calc{
16     background-color: #3a4452;
17     padding: 20px;
18     border-radius: 10px;
19 }
20 .calc form input{
21     border: 0;
22     outline: 0;
23     width: 60px;
24     height: 60px;
25     border-radius: 50%;
26     box-shadow: -8px -8px 15px rgba(255, 255, 255, 0.1), 5px 5px 15px rgba(0, 0, 0, 0.2);
27     background: transparent;
28     font-size: 20px;
29     color: white;
30     cursor: pointer;
31     margin: 10px;
32     transition: .5s;
33 }
34 .calc form input:hover{
35     transform: scale(1.1);
36     /* border-radius: 20px; */
37     background-color: black;
38 }
```

```
calc.html # style.css X
# style.css > .container
34 .calc form input:hover{
35     transform: scale(1.1);
36     /* border-radius: 20px; */
37     background-color: black;
38     color: white;
39 }
40
41 form .display{
42     display: flex;
43     justify-content: flex-end;
44     margin: 20px 0;
45 }
46 form .display input{
47     text-align: right;
48     flex: 1;
49     border-radius: 50px;
50     font-size: 45px;
51     box-shadow: -8px -8px 15px rgba(255, 255, 255, 0.1), 5px 5px 15px rgba(0, 0, 0, 0.2);
52 }
53 #equal{
54     color: black;
55     background-color: rgb(255, 181, 7);
56 }
57 form input.firstRow, form input.lastColumn{
58     background-color: cyan;
59     color: black;
60 }
61 form h1{
62     /* background-color: rgb(43, 47, 47); */
63     color: white;
64     text-align: center;
65     padding: 5px;
66     margin-top: 0;
67     border-radius: 10px;
68 }
```

OUTPUT:



Conclusion: Thus We Have successfully Designed a Calculator Using HTML CSS and JavaScript.