**SL - Practical - 5**

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**AIM: To Design a Fully Functional Calculator  
  
CODE:**

**Calculator.html**

<!DOCTYPE html>

<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>Calculator</title>

</head>

<body>

    <div class="container">

        <div class="calculator">

            <input type="text" id="inputBox" placeholder="0" />

            <div>

                <button class="button operator">AC</button>

                <button class="button operator">DEL</button>

                <button class="button operator">%</button>

                <button class="button operator">/</button>

            </div>

            <div>

                <button class="button">7</button>

                <button class="button">8</button>

                <button class="button">9</button>

                <button class="button operator">\*</button>

            </div>

            <div>

                <button class="button">4</button>

                <button class="button">5</button>

                <button class="button">6</button>

                <button class="button operator">-</button>

            </div>

            <div>

                <button class="button">1</button>

                <button class="button">2</button>

                <button class="button">3</button>

                <button class="button operator">+</button>

            </div>

            <div>

                <button class="button">00</button>

                <button class="button">0</button>

                <button class="button">.</button>

                <button class="button equalBtn">=</button>

            </div>

        </div>

    </div>

    <script src="Calculator.js"></script>

</body>

</html>

style.css

\* {

    margin: 0;

    padding: 0;

    box-sizing: border-box;

    font-family: 'Poppins', sans-serif;

}

body {

    width: 100%;

    height: 100vh;

    display: flex;

    justify-content: center;

    align-items: center;

    background: linear-gradient(45deg, #0a0a0a, #3a4452);

}

.calculator {

    border: 1px solid #717377;

    padding: 20px;

    border-radius: 16px;

    background: transparent;

    box-shadow: 0px 3px 15px rgba(113, 115, 119, 0.5);

}

input {

    width: 320px;

    border: 0.02px solid white;

    padding: 24px;

    margin: 10px;

    background: transparent;

    font-size: 40px;

    text-align: right;

    cursor: pointer;

    color: #ffffff;

}

input::placeholder {

    color: #ffffff;

}

button {

    border: 0.02px solid white;

    width: 60px;

    height: 60px;

    margin: 10px;

    border-radius: 5%;

    background: transparent;

    color: #ffffff;

    font-size: 20px;

    cursor: pointer;

}

.equalBtn {

    background-color: #fb7c14;

}

.operator {

    color: #6dee0a;

}

Calculator.js

let input = document.getElementById('inputBox');

let buttons = document.querySelectorAll('button');

let string = "";

let arr = Array.from(buttons);

arr.forEach(button => {

    button.addEventListener('click', (e) => {

        if (e.target.innerHTML == '=') {

            string = eval(string);

            input.value = string;

        }

        else if (e.target.innerHTML == 'AC') {

            string = "";

            input.value = string;

        }

        else if (e.target.innerHTML == 'DEL') {

            string = string.substring(0, string.length - 1);

            input.value = string;

        }

        else {

            string += e.target.innerHTML;

            input.value = string;

        }

    })

})

OUTPUT:  
  
  
