

Assignment no :- 4

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Apple Calculator</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="calculator">
    <div class="display" id="display">0</div>
    <div class="buttons">
      <button class="gray" onclick="clearDisplay()">AC</button>
      <button class="gray" onclick="toggleSign()">+/-</button>
      <button class="gray" onclick="appendToDisplay('%')">%</button>
      <button class="orange" onclick="appendToDisplay('/')">÷</button>

      <button class="dark-gray" onclick="appendToDisplay('7')">7</button>
      <button class="dark-gray" onclick="appendToDisplay('8')">8</button>
      <button class="dark-gray" onclick="appendToDisplay('9')">9</button>
      <button class="orange" onclick="appendToDisplay('*')">×</button>

      <button class="dark-gray" onclick="appendToDisplay('4')">4</button>
      <button class="dark-gray" onclick="appendToDisplay('5')">5</button>
      <button class="dark-gray" onclick="appendToDisplay('6')">6</button>
      <button class="orange" onclick="appendToDisplay('-')">-</button>

      <button class="dark-gray" onclick="appendToDisplay('1')">1</button>
      <button class="dark-gray" onclick="appendToDisplay('2')">2</button>
      <button class="dark-gray" onclick="appendToDisplay('3')">3</button>
      <button class="orange" onclick="appendToDisplay('+')">+</button>

      <button class="dark-gray zero" onclick="appendToDisplay('0')">0</button>
      <button class="dark-gray" onclick="appendToDisplay('.')">.</button>
      <button class="orange" onclick="calculateResult()">=</button>
    </div>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

Script.js

```
let display = document.getElementById('display');
```

```
function appendToDisplay(value) {  
  if (display.innerText === '0' && value !== '.') {  
    display.innerText = value;  
  } else {  
    display.innerText += value;  
  }  
}
```

```
function clearDisplay() {  
  display.innerText = '0';  
}
```

```
function deleteLast() {  
  display.innerText = display.innerText.slice(0, -1);  
  if (display.innerText === "") {  
    display.innerText = '0';  
  }  
}
```

```
function calculateResult() {  
  try {  
    display.innerText = eval(display.innerText);  
  } catch {  
    display.innerText = 'Error';  
  }  
}
```

```
function toggleSign() {  
  if (display.innerText !== '0') {  
    display.innerText = display.innerText.startsWith('-')  
      ? display.innerText.substring(1)  
      : '-' + display.innerText;  
  }  
}
```

Style.css

```
body {
  font-family: 'Arial', sans-serif;
  background-color: black;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
}

.calculator {
  width: 300px;
  background: #1C1C1C;
  padding: 20px;
  border-radius: 30px;
  box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.5);
}

.display {
  width: 100%;
  height: 80px;
  font-size: 40px;
  text-align: right;
  color: white;
  background: #1C1C1C;
  padding: 20px;
  border-radius: 10px;
  margin-bottom: 20px;
  overflow: hidden;
}

.buttons {
  display: grid;
  grid-template-columns: repeat(4, 1fr);
  gap: 10px;
}

button {
  width: 100%;
  height: 60px;
  font-size: 24px;
  font-weight: bold;
  border: none;
  border-radius: 50%;
  cursor: pointer;
  transition: 0.2s;
}
```

```
button:active {
  transform: scale(0.9);
}

.orange {
  background: #FF9500;
  color: white;
}

.orange:hover {
  background: #D87B00;
}

.dark-gray {
  background: #505050;
  color: white;
}

.dark-gray:hover {
  background: #737373;
}

.gray {
  background: #A5A5A5;
  color: black;
}

.gray:hover {
  background: #C4C4C4;
}

.zero {
  grid-column: span 2;
  border-radius: 30px;
}
```

