

## Mini Project 2: Calculator using HTML, CSS, JS

### Project Structure

- index.html
- style.css
- script.js

### HTML Code (index.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Calculator</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="calculator">
    <input type="text" id="display" disabled />
    <div class="buttons">
      <button onclick="clearDisplay()">C</button>
      <button onclick="deleteLast()">DEL</button>
      <button onclick="appendValue('/')">/</button>
      <button onclick="appendValue('*')">*</button>
      <button onclick="appendValue('7')">7</button>
      <button onclick="appendValue('8')">8</button>
      <button onclick="appendValue('9')">9</button>
      <button onclick="appendValue('-')">-</button>
      <button onclick="appendValue('4')">4</button>
      <button onclick="appendValue('5')">5</button>
      <button onclick="appendValue('6')">6</button>
      <button onclick="appendValue('+)">+</button>
      <button onclick="appendValue('1)">1</button>
      <button onclick="appendValue('2)">2</button>
      <button onclick="appendValue('3)">3</button>
      <button onclick="calculate()">=</button>
      <button onclick="appendValue('0)" class="zero">0</button>
      <button onclick="appendValue('.')">.</button>
    </div>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

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### CSS Code (style.css)

```
body {
  margin: 0;
  background-color: #111;
  font-family: 'Segoe UI', sans-serif;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}

.calculator {
  background: #222;
  padding: 20px;
  border-radius: 15px;
  box-shadow: 0 0 15px #555;
}

#display {
  width: 100%;
  font-size: 2rem;
  padding: 10px;
  margin-bottom: 15px;
  background: #333;
  color: #fff;
  border: none;
  border-radius: 5px;
}

.buttons {
  display: grid;
  grid-template-columns: repeat(4, 60px);
  gap: 10px;
}

button {
  padding: 15px;
  font-size: 1.2rem;
  background: #444;
  color: white;
  border: none;
  border-radius: 8px;
  cursor: pointer;
}

button:hover {
  background: #666;
}
```

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```
}  
.zero {  
  grid-column: span 2;  
}
```

### JavaScript Code (script.js)

```
let display = document.getElementById("display");  
function appendValue(value) {  
  display.value += value;  
}  
function clearDisplay() {  
  display.value = "";  
}  
function deleteLast() {  
  display.value = display.value.slice(0, -1);  
}  
function calculate() {  
  try {  
    display.value = eval(display.value);  
  } catch {  
    display.value = "Error";  
  }  
}
```