CALCULATOR CODE

index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Mac Calculator</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

<div class="calculator">

  <div class="top-bar">
    <span class="dot red"></span>
    <span class="dot yellow"></span>
    <span class="dot green"></span>
  </div>

  <!-- DISPLAY -->
  <div class="display">
    <div id="history" class="history"></div>
    <div id="result" class="result">0</div>
  </div>

  <button class="mode-btn" onclick="toggleMode()">SCI</button>

  <!-- BASIC PANEL -->
  <div id="basicPanel" class="panel">
    <button class="gray" onclick="clearAll()">AC</button>
    <button class="gray" onclick="toggleSign()">+/-</button>
    <button class="gray" onclick="append('%')">%</button>
    <button class="orange" onclick="append('/')">÷</button>

    <button onclick="append('7')">7</button>
    <button onclick="append('8')">8</button>
    <button onclick="append('9')">9</button>
    <button class="orange" onclick="append('*')">×</button>

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

    <button onclick="append('1')">1</button>
    <button onclick="append('2')">2</button>
    <button onclick="append('3')">3</button>
    <button class="orange" onclick="append('+')">+</button>

    <button class="zero" onclick="append('0')">0</button>
```

```html
      <button onclick="append('.')">.</button>
      <button class="orange" onclick="calculate()">=</button>
    </div>

    <!-- SCI PANEL -->
    <div id="sciPanel" class="panel hidden">
      <button onclick="sci('sqrt')">√</button>
      <button onclick="sci('square')">x²</button>
      <button onclick="sci('reciprocal')">1/x</button>
      <button onclick="append('**')">xʸ</button>

      <button onclick="sci('sin')">sin</button>
      <button onclick="sci('cos')">cos</button>
      <button onclick="sci('tan')">tan</button>
      <button onclick="sci('log')">log</button>
    </div>

  </div>

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

script.js

```javascript
const resultDisplay = document.getElementById("result");
const historyDisplay = document.getElementById("history");

function append(value) {
  if (resultDisplay.textContent === "0") resultDisplay.textContent = value;
  else resultDisplay.textContent += value;
}

function clearAll() {
  resultDisplay.textContent = "0";
  historyDisplay.textContent = "";
}

function toggleSign() {
  let v = resultDisplay.textContent;
  resultDisplay.textContent = v.startsWith("-") ? v.slice(1) : "-" + v;
}

function calculate() {
  try {
    let expression = resultDisplay.textContent.replace('%','/100');
    let result = eval(expression);

    historyDisplay.textContent = resultDisplay.textContent + " =";
    resultDisplay.textContent = result;
```

```javascript
    } catch {
      alert("Invalid calculation!");
      clearAll();
    }
}

function toggleMode() {
   document.getElementById("basicPanel").classList.toggle("hidden");
   document.getElementById("sciPanel").classList.toggle("hidden");
}

function sci(type) {
   let v = parseFloat(resultDisplay.textContent);
   if (isNaN(v)) return alert("Invalid number!");

   let expression = "";
   let result = 0;

   switch(type){
     case "sqrt":
       if(v<0) return alert("Invalid");
       expression = `√(${v})`;
       result = Math.sqrt(v);
       break;

     case "square":
       expression = `(${v})²`;
       result = v * v;
       break;

     case "reciprocal":
       if(v===0) return alert("Divide by zero!");
       expression = `1/(${v})`;
       result = 1 / v;
       break;

     case "sin":
       expression = `sin(${v})`;
       result = Math.sin(v*Math.PI/180);
       break;

     case "cos":
       expression = `cos(${v})`;
       result = Math.cos(v*Math.PI/180);
       break;

     case "tan":
       expression = `tan(${v})`;
       result = Math.tan(v*Math.PI/180);
       break;
```

```
      case "log":
        expression = `log(${v})`;
        result = Math.log10(v);
        break;
    }

    historyDisplay.textContent = expression;
    resultDisplay.textContent = parseFloat(result.toFixed(6));
}
```

style.css

```css
body {
  background: #1e1e1e;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  font-family: -apple-system, sans-serif;
}

.calculator {
  width: 300px;
  background: #3a3a3a;
  border-radius: 20px;
  overflow: hidden;
  box-shadow: 0 20px 40px rgba(0,0,0,0.5);
}

.top-bar {
  padding: 10px;
  display: flex;
  gap: 6px;
  background: #2e2e2e;
}

.dot { width: 10px; height: 10px; border-radius: 50%; }
.red { background:#ff5f56; }
.yellow { background:#ffbd2e; }
.green { background:#27c93f; }

/* DISPLAY */
.display {
  background: #2a2a2a;
  padding: 14px 18px;
  text-align: right;
  border: 2px solid #444;
}

.history {
```

```css
  font-size: 14px;
  color: #bbb;
  min-height: 18px;
}

.result {
  font-size: 46px;
  color: white;
  font-weight: 500;
  min-height: 48px;
}

.mode-btn {
  width: 100%;
  padding: 12px;
  background: #222;
  color: white;
  font-weight: bold;
  border: none;
}

.panel {
  display: grid;
  grid-template-columns: repeat(4, 1fr);
}

button {
  padding: 18px;
  font-size: 20px;
  border: 1px solid #2e2e2e;
  color: white;
  background: #505050;
  cursor: pointer;
}

button:hover { filter: brightness(1.2); }

.gray { background:#a5a5a5; color:black; }
.orange { background:#ff9f0a; }
.zero { grid-column: span 2; }

.hidden { display:none; }
```