

SOURCE CODE:

```
index.html  styles.css  script.js  +  📄  
1 <!DOCTYPE html>  
2 <html lang="en">  
3 <head>  
4   <title>Calculator</title>  
5   <link rel="stylesheet" href="styles.css">  
6 </head>  
7 <body class="light">  
8   <button id="toggleTheme"> 🌑 /button>  
9   <div class="calculator">  
10     <div class="display-section">  
11       <div class="expression" id="expressionDisplay"></div>  
12       <div class="result" id="resultDisplay">0</div>  
13     </div>  
14     <div class="buttons">  
15       <button onclick="clearDisplay()">AC</button>  
16       <button onclick="appendValue('(')">(</button>  
17       <button onclick="appendValue(')')">)</button>  
18       <button onclick="appendValue('/')">/</button>  
19       <button onclick="appendValue('7')">7</button>  
20       <button onclick="appendValue('8')">8</button>  
21       <button onclick="appendValue('9')">9</button>  
22       <button onclick="appendValue('*')">*</button>  
23       <button onclick="appendValue('4')">4</button>  
24       <button onclick="appendValue('5')">5</button>  
25       <button onclick="appendValue('6')">6</button>  
26       <button onclick="appendValue('-')">-</button>  
27       <button onclick="appendValue('1')">1</button>  
28       <button onclick="appendValue('2')">2</button>  
29       <button onclick="appendValue('3')">3</button>  
30       <button onclick="appendValue('+')">+</button>  
31       <button onclick="appendValue('0')">0</button>  
32       <button onclick="appendValue('.')">.</button>  
33       <button class="equal" onclick="calculateResult()">=</button>  
34     </div>  
35   </div>  
36   <script src="script.js"></script>  
37 </body>  
38 </html>
```

```
index.html  styles.css  script.js  +  📄  Calculator ✎  
1 let expression = "";  
2 let finalResultShown = false;  
3  
4 const resultDisplay = document.getElementById("resultDisplay");  
5  
6 function appendValue(val) {  
7   if (finalResultShown) {  
8     expression = resultDisplay.innerText;  
9     finalResultShown = false;  
10  }  
11  expression += val;  
12  resultDisplay.innerText = expression;  
13 }  
14  
15 function clearDisplay() {  
16   expression = "";  
17   resultDisplay.innerText = "0";  
18 }  
19  
20 function calculateResult() {  
21   try {  
22     const result = eval(expression);  
23     resultDisplay.innerText = formatNumber(result);  
24     finalResultShown = true;  
25   } catch (e) {  
26     resultDisplay.innerText = "Error";  
27   }  
28 }  
29  
30 function formatNumber(num) {  
31   return Number(num).toLocaleString("en-US");  
32 }  
33  
34 document.getElementById("toggleTheme").addEventListener("click", () => {  
35   document.body.classList.toggle("dark");  
36   document.body.classList.toggle("light");  
37   document.getElementById("toggleTheme").textContent = document.body.classList.contains("dark") ? "🌑" : "🌞";  
38 });  
39  
40 document.addEventListener("keydown", (event) => {  
41   const key = event.key;  
42   if (!isNaN(key) || "+*/().".includes(key)) {  
43     appendValue(key);  
44   } else if (key === "Enter") {  
45     event.preventDefault();  
46     calculateResult();  
47   } else if (key === "Backspace") {  
48     expression = expression.slice(0, -1);  
49     resultDisplay.innerText = expression || "0";  
50   }  
51 });
```

```

index.html  styles.css  script.js  +  ↗
1  * {
2    box-sizing: border-box;
3  }
4  body {
5    font-family: 'Segoe UI', sans-serif;
6    margin: 0;
7    padding: 0;
8    height: 100vh;
9    display: flex;
10   align-items: center;
11   justify-content: center;
12   transition: background 0.3s ease;
13 }
14 body.light {
15   background: linear-gradient(135deg, #dbe8f4, #a2c9e2);
16 }
17 body.light .buttons button {
18   color: #2c3e50;
19 }
20 body.dark {
21   background: linear-gradient(135deg, #0f2027, #203a43, #2c5364);
22 }
23 #toggleTheme {
24   position: absolute;
25   top: 20px;
26   right: 20px;
27   padding: 10px 14px;
28   font-size: 18px;
29   border: none;
30   background: rgba(255, 255, 255, 0.50);
31   border-radius: 12px;
32   cursor: pointer;
33   backdrop-filter: blur(10px);
34   transition: 0.3s;
35 }
36 .calculator {
37   width: 320px;
38   padding: 20px;
39   border-radius: 25px;
40   background: rgba(255, 255, 255, 0.15);
41   backdrop-filter: blur(20px);
42   box-shadow: 0 8px 30px rgba(0, 0, 0, 0.2);
43   border: 1px solid rgba(255, 255, 255, 0.25);
44   display: flex;
45   flex-direction: column;
46   gap: 15px;
47   transition: 0.3s;
48 }
49 body.dark .calculator {
50   background: rgba(0, 0, 0, 0.2);
51   border: 1px solid rgba(255, 255, 255, 0.1);
52 }
53 .display-section {
54   display: flex;
55   flex-direction: column;
56   align-items: flex-end;
57   padding: 10px;
58   border-radius: 12px;
59   color: white;
60   background: rgba(255, 255, 255, 0.05);
61 }
62 .expression {
63   font-size: 16px;
64   opacity: 0.7;
65 }
66 .result {
67   font-size: 28px;
68   font-weight: bold;
69 }
70 .buttons {
71   display: grid;
72   grid-template-columns: repeat(4, 1fr);
73   gap: 12px;
74 }
75 .buttons button {
76   height: 55px;
77   font-size: 18px;
78   border: none;
79   border-radius: 14px;
80   color: white;
81   background: rgba(255, 255, 255, 0.1);
82   backdrop-filter: blur(5px);
83   cursor: pointer;
84   transition: all 0.2s ease-in-out;
85 }
86 .buttons button:hover {
87   background: rgba(255, 255, 255, 0.25);
88 }
89 .equal {
90   background-color: #007bff;
91 }
92 .equal:hover {
93   background-color: #0056b3;
94 }
95

```