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LAPORAN

Source Code

HTML

```
<!DOCTYPE html>
<html lang="id">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Kalkulator Digital</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="calculator">
    <div class="display">
      <input type="text" id="result" readonly>
    </div>
    <div class="buttons">
      <button class="operator" onclick="clearScreen()">C</button>
      <button class="operator" onclick="deleteLastChar()">DEL</button>
      <button class="operator" onclick="appendValue('/')">/</button>
      <button class="operator" onclick="appendValue('*')">*</button>

      <button onclick="appendValue('7')">7</button>
      <button onclick="appendValue('8')">8</button>
      <button onclick="appendValue('9')">9</button>
      <button class="operator" onclick="appendValue('-')">-</button>

      <button onclick="appendValue('4')">4</button>
      <button onclick="appendValue('5')">5</button>
      <button onclick="appendValue('6')">6</button>
      <button class="operator" onclick="appendValue('+')">+</button>

      <button onclick="appendValue('1')">1</button>
      <button onclick="appendValue('2')">2</button>
```

```
        <button onclick="appendValue('3')">3</button>
        <button class="equal" onclick="calculateResult()">=</button>

        <button class="zero" onclick="appendValue('0')">0</button>
        <button onclick="appendValue('.')">.</button>
    </div>
</div>

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

CSS

```
header {
    text-align: center;
    margin-bottom: 20px;
}

header h1 {
    margin: 0;
    font-size: 2rem;
    color: #333;
}

body {
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background-color: #f0f0f0;
    font-family: 'Arial', sans-serif;
}

.calculator {
    width: 320px;
    border: 1px solid #ccc;
    border-radius: 10px;
    box-shadow: 0 5px 15px rgba(0,0,0,0.1);
    background-color: #fff;
    margin: 0
}
```

```
.display input {
  width: 100%;
  height: 70px;
  border: none;
  background-color: #222;
  color: #fff;
  text-align: right;
  font-size: 2.5rem;
  padding: 10px 20px;
  box-sizing: border-box;
  border-top-left-radius: 10px;
  border-top-right-radius: 10px;
}

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

button {
  height: 80px;
  border: none;
  font-size: 1.5rem;
  cursor: pointer;
  background-color: #f9f9f9;
  transition: background-color 0.3s;
}

button:hover {
  background-color: #e0e0e0;
}

button:active {
  background-color: #d0d0d0;
}

.operator {
  background-color: #f0ad4e;
  color: white;
}

.operator:hover {
  background-color: #ec971f;
}
```

```

.equal {
  background-color: #5cb85c;
  color: white;
  grid-column: span 2; /* Tombol '=' memakan dua kolom */
}

.equal:hover {
  background-color: #4cae4c;
}

.zero {
  grid-column: span 1;
}

.clear, .delete {
  background-color: #d9534f;
  color: white;
}

.clear:hover, .delete:hover {
  background-color: #c9302c;
}

```

JS

```

// Mengambil elemen layar dari HTML untuk kita manipulasi.
const display = document.getElementById('result');

// Menambahkan angka atau operator ke layar.
function appendValue(value) {
  display.value += value;
}

// Mengosongkan seluruh isi layar (tombol 'C').
function clearScreen() {
  display.value = '';
}

// Menghapus satu karakter terakhir (tombol 'DEL').
function deleteLastChar() {
  display.value = display.value.slice(0, -1);
}

```

```
// Menghitung ekspresi di layar dan menampilkan hasilnya (tombol '=').
function calculateResult() {
    try {
        // eval() secara ajaib menghitung string matematika, misal "2+3*2"
        // menjadi 8.
        display.value = eval(display.value);
    } catch (error) {
        // Jika perhitungan gagal (misal "5*/2"), tampilkan 'Error'.
        display.value = 'Error';
    }
}
}
```

Github: https://github.com/NekoDesu-cyte/PPW_Teori_2311104027_Haikal-Fadhilah-Mufid/tree/main

ScreenShoot:

