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2311104007\S1 SE 07-01

Tugas Jurnal Modul

1. 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 Modern</title>
  <style>
    body {
      font-family: 'Poppins', sans-serif;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      background-color: #1e1e1e;
    }
    .calculator {
      width: 300px;
      background: #333;
      padding: 20px;
      box-shadow: 0px 4px 15px rgba(0, 0, 0, 0.2);
      border-radius: 15px;
      text-align: center;
    }
    .screen {
      width: 100%;
      height: 80px;
      font-size: 50px;
      text-align: right;
```

```css
    padding: 3px;

    border: none;

    background: #222;

    color: white;

    margin-bottom: 15px;

    border-radius: 10px;

    overflow: hidden;

    white-space: nowrap;

    text-overflow: ellipsis;

}
.buttons {

    display: grid;

    grid-template-columns: repeat(4, 1fr);

    gap: 8px;

}
button {

    width: 100%;

    height: 60px;

    font-size: 22px;

    border: none;

    cursor: pointer;

    border-radius: 10px;

    transition: 0.2s;

    font-weight: bold;

}
button:hover {

    transform: scale(1.05);

    opacity: 0.8;

}
.operator {

    background: #ff9800;

    color: white;
```

```html
      }
      .clear {
        background: #f44336;

        color: white;

      }
      .equal {
        background: #4caf50;

        color: white;

        grid-column: span 2;

      }
      .number {
        background: #444;

        color: white;

      }
    </style>
</head>
<body>
    <div class="calculator">
      <input type="text" class="screen" id="screen" disabled>
      <div class="buttons">
        <button class="number" onclick="appendNumber('7')">7</button>
        <button class="number" onclick="appendNumber('8')">8</button>
        <button class="number" onclick="appendNumber('9')">9</button>
        <button class="operator" onclick="appendOperator('/')">/</button>
        <button class="number" onclick="appendNumber('4')">4</button>
        <button class="number" onclick="appendNumber('5')">5</button>
        <button class="number" onclick="appendNumber('6')">6</button>
        <button class="operator" onclick="appendOperator('*')">*</button>
        <button class="number" onclick="appendNumber('1')">1</button>
        <button class="number" onclick="appendNumber('2')">2</button>
        <button class="number" onclick="appendNumber('3')">3</button>
        <button class="operator" onclick="appendOperator('-')">-</button>
```

```html
      <button class="number" onclick="appendNumber('0')">0</button>

      <button class="number" onclick="appendNumber('.')">.</button>

      <button class="clear" onclick="clearScreen()">C</button>

      <button class="operator" onclick="appendOperator('+')">+</button>

      <button class="equal" onclick="calculateResult()">=</button>

    </div>

  </div>


  <script>

    let screen = document.getElementById("screen");

    let currentInput = "";


    function appendNumber(number) {

      if (currentInput.length < 16) { // Batasi panjang input agar tetap rapi

        currentInput += number;

        screen.value = currentInput;

      }

    }


    function appendOperator(operator) {

      if (currentInput !== "" && !isNaN(currentInput[currentInput.length - 1])) {

        currentInput += operator;

        screen.value = currentInput;

      }

    }


    function clearScreen() {

      currentInput = "";

      screen.value = "";

    }


    function calculateResult() {
```
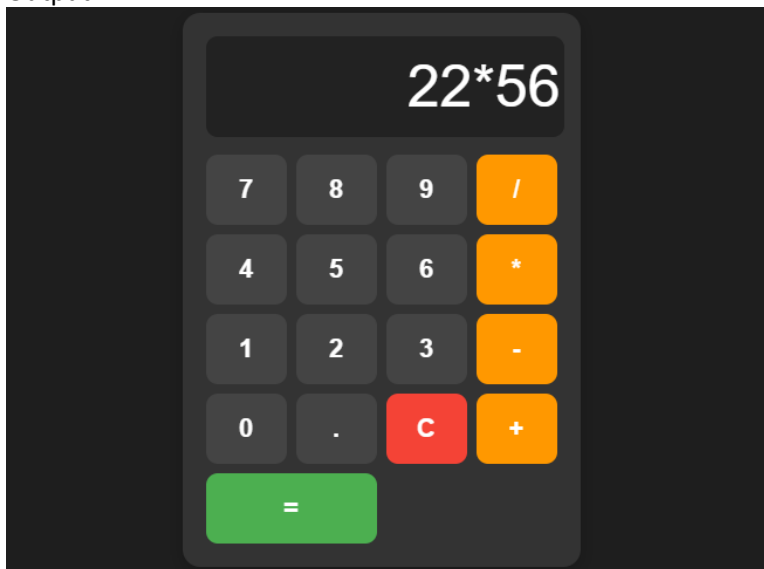
```
      try {

        currentInput = eval(currentInput).toString();

        screen.value = currentInput;

      } catch (error) {

        screen.value = "Error";

        currentInput = "";

      }

    }

  </script>

</body>

</html>
```

2. Output

3. Penjelasan
   Kode ini menciptakan sebuah kalkulator modern yang memiliki tampilan dark mode dan tombol interaktif. HTML digunakan untuk menyusun layar dan tombol-tombol kalkulator, sedangkan CSS memberikan sentuhan estetika agar tampil lebih menarik dan responsif. Kalkulator ini juga membatasi panjang input agar tetap rapi dan akan menampilkan pesan "Error" jika terjadi kesalahan dalam perhitungan.