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<!DOCTYPE html>
<html lang="hi">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Sahil Singh's Calculator</title>
  <script src="https://cdn.tailwindcss.com"></script>
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com"
crossorigin>
  <link
href="https://fonts.googleapis.com/css2?family=Playfair+Display:wght@7
00&display=swap" rel="stylesheet">
  <style>
    body {
      background: linear-gradient(135deg, #1f2937, #374151);
      font-family: 'Inter', sans-serif;
      display: flex;
      justify-content: center;
      align-items: center;
      min-height: 100vh;
      color: #f3f4f6;
    }

    .calculator {
      background-color: #111827;
      padding: 1.5rem;
      border-radius: 1.5rem;
      box-shadow: 0 10px 20px rgba(0, 0, 0, 0.5), 0 6px 6px
rgba(0, 0, 0, 0.3);
      width: 100%;
      max-width: 400px;
      border: 2px solid #374151;
    }

    #owner-name {
      font-family: 'Playfair Display', serif;
      font-size: 2.5rem;
      font-weight: 700;
      text-align: center;
      margin-bottom: 1.5rem;
      color: #d1d5db;
      text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.4);
    }

    .calculator-screen {
      background-color: #4b5563;

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    height: 80px;
    display: flex;
    align-items: flex-end;
    justify-content: flex-end;
    padding: 0.5rem 1rem;
    border-radius: 0.75rem;
    margin-bottom: 1rem;
    word-wrap: break-word;
    overflow: hidden;
    font-size: 2.5rem;
    font-weight: bold;
    color: #f3f4f6;
    text-align: right;
    border: 1px solid #6b7280;
}

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

.btn {
    background-color: #374151;
    color: #f3f4f6;
    font-size: 1.5rem;
    font-weight: 600;
    padding: 1.5rem;
    border-radius: 1rem;
    cursor: pointer;
    transition: all 0.2s ease-in-out;
    box-shadow: 0 4px 6px rgba(0, 0, 0, 0.3);
}

.btn:hover {
    background-color: #4b5563;
    transform: translateY(-2px);
    box-shadow: 0 6px 8px rgba(0, 0, 0, 0.4);
}

.btn:active {
    transform: translateY(0);
    box-shadow: 0 2px 4px rgba(0, 0, 0, 0.3);
}

.btn-operator {
    background-color: #9333ea;
    color: #e5e7eb;

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    }

    .btn-equal {
        background-color: #10b981;
        grid-column: span 2;
    }

    .btn-clear {
        background-color: #ef4444;
    }
</style>
</head>
<body>

    <div class="calculator">
        <!-- Sahil Singh naam ke liye heading -->
        <h1 id="owner-name">Sahil Singh</h1>

        <!-- Calculator screen jahan input aur result dikhenge -->
        <div class="calculator-screen" id="screen">0</div>

        <!-- Calculator ke buttons -->
        <div class="calculator-buttons">
            <button class="btn btn-clear"
onclick="clearScreen()">C</button>
            <button class="btn btn-operator"
onclick="addToScreen('/')">/</button>
            <button class="btn btn-operator"
onclick="addToScreen('*')">*</button>
            <button class="btn btn-operator"
onclick="addToScreen('-')">-</button>
            <button class="btn" onclick="addToScreen('7')">7</button>
            <button class="btn" onclick="addToScreen('8')">8</button>
            <button class="btn" onclick="addToScreen('9')">9</button>
            <button class="btn btn-operator"
onclick="addToScreen('+')">+</button>
            <button class="btn" onclick="addToScreen('4')">4</button>
            <button class="btn" onclick="addToScreen('5')">5</button>
            <button class="btn" onclick="addToScreen('6')">6</button>
            <button class="btn btn-operator"
onclick="calculateResult()">=</button>
            <button class="btn" onclick="addToScreen('1')">1</button>
            <button class="btn" onclick="addToScreen('2')">2</button>
            <button class="btn" onclick="addToScreen('3')">3</button>
            <button class="btn" onclick="addToScreen('0')">0</button>
            <button class="btn" onclick="addToScreen('.')">.</button>
            <button class="btn btn-equal"
onclick="calculateResult()">=</button>
        </div>
    </div>

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        </div>
    </div>

    <script>
        // Screen element ko access karein
        const screen = document.getElementById('screen');

        // Ye variable last operator store karega
        let lastCharIsOperator = false;

        // Number aur operator ko screen pe add karne ka function
        function addToScreen(value) {
            // Agar screen pe '0' hai aur value '0' nahi hai, toh '0'
hata dein
            if (screen.textContent === '0' && value !== '.') {
                screen.textContent = value;
            } else {
                // Operator ke baad turant doosra operator add hone se
rokein
                if (['+', '-', '*', '/'].includes(value)) {
                    if (lastCharIsOperator) {
                        // Agar last character operator hai, toh usko
naye operator se replace karein
                        screen.textContent =
screen.textContent.slice(0, -1) + value;
                    } else {
                        screen.textContent += value;
                    }
                    lastCharIsOperator = true;
                } else {
                    screen.textContent += value;
                    lastCharIsOperator = false;
                }
            }
        }

        // Screen ko clear karne ka function
        function clearScreen() {
            screen.textContent = '0';
            lastCharIsOperator = false;
        }

        // Calculation karne ka function
        function calculateResult() {
            try {
                // Eval() function ka use karke expression ko
calculate karein
                // Math.js library ka use karke aur bhi complex

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calculations kar sakte hain
    const result = eval(screen.textContent);
    screen.textContent = result;
  } catch (error) {
    // Agar koi error (jaise galat expression) ho toh
    'Error' dikhayein
    screen.textContent = 'Error';
  }
}
</script>

</body>
</html>
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