**Tugas / Tutorial 7 - Javascript dan Jquery**

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1. **Struktur HTML Dasar**

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| <!DOCTYPE html>  <html lang="id">  <head>  <!-- Metadata dan link ke resource eksternal -->  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Tugas JavaScript & jQuery - Rizky Cristian</title>    <!-- Resource eksternal -->  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet">  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.10.5/font/bootstrap-icons.css">  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600&display=swap" rel="stylesheet">  <script src="https://code.jquery.com/jquery-3.6.1.min.js"></script>  </head>  <body>  <!-- Konten halaman -->  </body>  </html> |

1. **CSS Kustom**

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| <style>          body {              font-family: 'Poppins', sans-serif;              background: linear-gradient(to right, #e0eafc, #cfdef3);              padding-top: 20px;              color: #333;          }          .card {              box-shadow: 0 4px 8px rgba(0,0,0,0.1);              border: none;              border-radius: 12px;              transition: transform 0.3s ease, box-shadow 0.3s ease;              margin-bottom: 25px;          }          .card:hover {              transform: translateY(-5px);              box-shadow: 0 10px 20px rgba(0,0,0,0.15);          }          .card-header {              background-color: #0d6efd;              color: white;              border-radius: 12px 12px 0 0 !important;          }          #color-box {              width: 200px;              height: 200px;              background-color: #e9ecef;              margin: 20px auto;              display: flex;              align-items: center;              justify-content: center;              border-radius: 12px;              transition: background-color 0.4s ease;          }          .btn-custom {              margin: 5px;              min-width: 170px;          }          .input-group {              max-width: 350px;              margin: 0 auto 15px;          }          .result-box {              background-color: #f1f8ff;              padding: 15px;              border-radius: 10px;              margin-top: 15px;              text-align: center;              font-weight: bold;          }          footer {              margin-top: 40px;              background-color: white;              padding: 15px;              border-radius: 10px;              box-shadow: 0 0 10px rgba(0,0,0,0.05);          }            /\* Tambahan gaya mahasiswa \*/          .handwritten {              font-family: 'Comic Sans MS', cursive, sans-serif;          }            .sticker {              position: absolute;              right: 20px;              top: -15px;              background-color: #ffc107;              padding: 5px 10px;              border-radius: 50%;              transform: rotate(15deg);              font-size: 0.8rem;              box-shadow: 0 2px 5px rgba(0,0,0,0.2);          }            .note {              background-color: #fff8e1;              border-left: 4px solid #ffc107;              padding: 10px;              margin: 10px 0;              font-size: 0.9rem;          }      </style>  </head>  <body> |

1. **Hitung Jumlah Bilangan Ganjil**

* **HTML :**

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| <div class="card">  <div class="card-header position-relative">  <h2 class="h5 mb-0"><i class="bi bi-calculator"></i> Hitung Jumlah Bilangan Ganjil</h2>  </div>  <div class="card-body text-center">  <div class="input-group mb-3">  <label class="input-group-text" for="min">Min:</label>  <input type="number" id="min" class="form-control" value="1" placeholder="Masukkan nilai minimum">  </div>  <!-- Input max dan tombol -->  <div class="result-box mt-3">  <p class="mb-1">Hasil Penjumlahan:</p>  <span id="result" class="display-6 text-primary">0</span>  <p id="process" class="text-muted small mt-2"></p>  </div>  </div>  </div> |

* **JavaScript :**

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| function hitungGanjil(min, max) {  let total = 0;  let proses = "";    // Validasi input  if (min > max) {  alert("Min tidak boleh lebih besar dari Max!");  return {  sum: 0,  expression: ""  };  }    // Mulai dari bilangan ganjil pertama  let mulai = (min % 2 === 1) ? min : min + 1;    // Hitung jumlah bilangan ganjil  for (let i = mulai; i <= max; i += 2) {  total += i;  if (proses !== "") proses += " + ";  proses += i;  }    return {  sum: total,  expression: proses  };  }  $("#calculate-btn").click(function() {  const min = parseInt($("#min").val());  const max = parseInt($("#max").val());  if (isNaN(min) || isNaN(max)) {  alert("Harap masukkan angka yang valid!");  return;  }  const hasil = hitungGanjil(min, max);  $("#result").text(hasil.sum);  $("#process").text(hasil.expression + (hasil.expression ? " = " + hasil.sum : ""));  }); |

1. **Manipulasi CSS dengan jQuery**

* **HTML :**

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| --- |
| <div class="card">  <div class="card-header">  <h2 class="h5 mb-0"><i class="bi bi-magic"></i> Manipulasi CSS dengan jQuery</h2>  </div>  <div class="card-body text-center">  <div id="text-container" class="mb-4 p-3 bg-light rounded">  <p class="mb-0">Ini adalah contoh teks yang akan diubah alignment-nya...</p>  </div>  <div id="color-box" class="mb-4">  <span class="text-muted">Klik tombol untuk mengubah warna!</span>  </div>  <!-- Tombol-tombol -->  </div>  </div> |

* **JavaScript**

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| --- |
| // Variabel untuk manipulasi CSS  let warnaAsli = "#e9ecef";  let warnaSekarang = true;  let warnaAlternatif = "#ffc107";  let alignSekarang = "left";  // Tombol untuk mengubah alignment teks  $("#align-btn").click(function() {  const teks = $("#text-container p");  if (alignSekarang === "left") {  teks.css("text-align", "center");  alignSekarang = "center";  $(this).html('<i class="bi bi-text-center"></i> Alignment: Tengah');  } else if (alignSekarang === "center") {  teks.css("text-align", "right");  alignSekarang = "right";  $(this).html('<i class="bi bi-text-right"></i> Alignment: Kanan');  } else {  teks.css("text-align", "left");  alignSekarang = "left";  $(this).html('<i class="bi bi-text-left"></i> Alignment: Kiri');  }  });  // Tombol untuk mengubah warna kotak  $("#color-btn").click(function() {  if (warnaSekarang) {  $("#color-box").css("background-color", warnaAlternatif);  $("#color-box span").text("Warna kuning!").css("font-weight", "bold");  $(this).html('<i class="bi bi-palette"></i> Kembalikan Warna');  } else {  $("#color-box").css("background-color", warnaAsli);  $("#color-box span").text("Klik tombol untuk mengubah warna!").css("font-weight", "normal");  $(this).html('<i class="bi bi-palette"></i> Ubah Warna Kotak');  }  warnaSekarang = !warnaSekarang;  });  // Efek tambahan saat halaman dimuat  $(document).ready(function() {  $("#text-container").hide().fadeIn(1000);  $("#color-box").hide().slideDown(800);  }); |

1. **Source Code dan Hasil Outputnya**

