Tugas / Tutorial 7 - Javascript dan Jquery

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1. Struktur HTML Dasar

```
<!DOCTYPE html>
<html lang="id">
<head>
  <!-- Metadata dan link ke resource eksternal -->
  <meta charset="UTF-8">
            name="viewport"
                                 content="width=device-width,
                                                                  initial-
  <meta
scale=1.0">
  <title>Tugas JavaScript & ¡Query - Rizky Cristian</title>
  <!-- Resource eksternal -->
                       href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
  link
alpha1/dist/css/bootstrap.min.css" rel="stylesheet">
           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&d
isplay=swap" rel="stylesheet">
  <script src="https://code.jquery.com/jquery-3.6.1.min.js"></script>
</head>
<body>
  <!-- Konten halaman -->
</body>
</html>
```

2. CSS Kustom

```
    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>
```

3. Hitung Jumlah Bilangan Ganjil

- HTML:

```
<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"</pre>
placeholder="Masukkan nilai minimum">
    </div>
    <!-- Input max dan tombol -->
    <div class="result-box mt-3">
      Hasil Penjumlahan:
      <span id="result" class="display-6 text-primary">0</span>
      </div>
  </div>
```

- JavaScript :

```
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 = \text{mulai}; i \le \text{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 : ""));
});
```

4. Manipulasi CSS dengan jQuery

- HTML:

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

- JavaScript

```
// 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');
     $("#color-box").css("background-color", warnaAsli);
    $("#color-box
                     span").text("Klik
                                         tombol
                                                            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);
});
```

5. Source Code dan Hasil Outputnya

