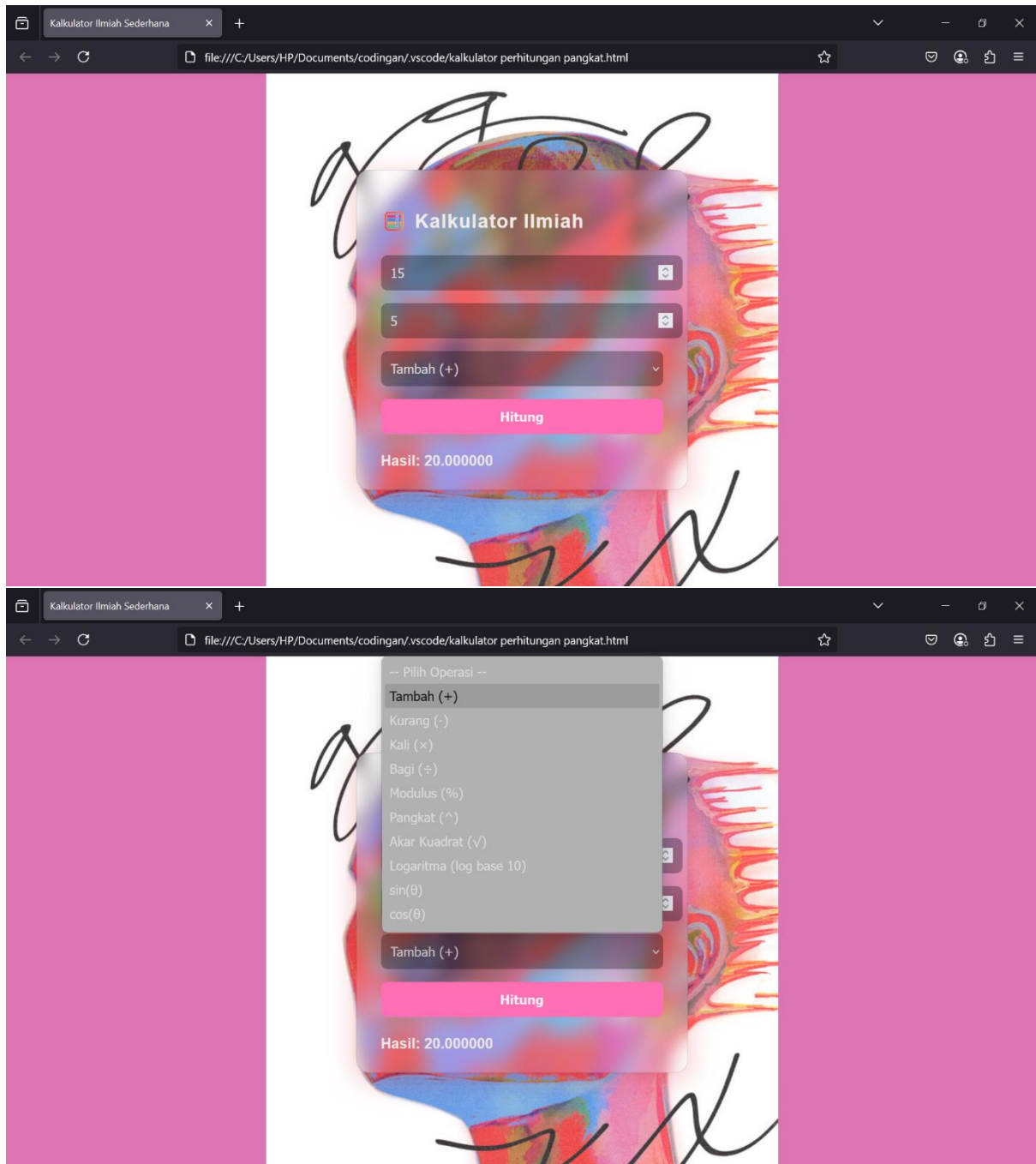


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```
<!DOCTYPE html>
```

```
<html lang="id">
```

```
<head>
```

```
<meta charset="UTF-8" />
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

```
<title>Kalkulator Ilmiah Sederhana</title>
```

```
<link href="https://www.google.com/url?sa=i&url=https%3A%2F%2Fopen.spotify.com%2Fintl-id%2Ftrack%2F1NAyq9TrQIpLHWStUX4xAQ&psig=AOvVaw0J344JXipYixlbMW3xYYB1&ust=1747231138590000&source=images&cd=vfe&opi=89978449&ved=0CBEQjRxqFwoTCJjs4cDNol0DFQAAAAAdA AAAABAM" rel="stylesheet">
```

```
<style>
```

```
@import url('https://www.google.com/url?sa=i&url=https%3A%2F%2Fopen.spotify.com%2Fintl-id%2Ftrack%2F1NAyq9TrQIpLHWStUX4xAQ&psig=AOvVaw0J344JXipYixlbMW3xYYB1&ust=1747231138590000&source=images&cd=vfe&opi=89978449&ved=0CBEQjRxqFwoTCJjs4cDNol0DFQAAAAAdA AAAABAM');
```

```
body {
```

```
background: url('https://i.scdn.co/image/ab67616d0000b2732d9e8e3e016cf68d53536c64') no-repeat center center fixed;
```

```
background-size: contain;
```

```
background-color: #dd74b3; /* fallback warna jika tidak penuh */
```

```
font-family: 'Poppins', sans-serif;
```

```
min-height: 100vh;
```

```
display: flex;
```

```
justify-content: center;
```

```
align-items: center;
```

```
margin: 0;
```

```
}
```

```
.calculator {
```

```
background: rgba(231, 219, 228, 0.15);
```

```
backdrop-filter: blur(10px);
```

```
padding: 25px 30px;
```

```
border-radius: 16px;
```

```
box-shadow: 0 8px 32px rgba(208, 11, 11, 0.25);
```

```
width: 350px;
```

```
color: #ca6aa2;
```

```
border: 1px solid rgba(67, 49, 49, 0.2);  
}
```

```
h2 {  
  font-weight: 600;  
  margin-bottom: 20px;  
  color: #f3ebeb;  
  letter-spacing: 1px;  
}
```

```
input, select, button {  
  width: 100%;  
  padding: 12px;  
  margin: 8px 0;  
  font-size: 16px;  
  border-radius: 8px;  
  border: none;  
  outline: none;  
}
```

```
input, select {  
  background: rgba(0, 0, 0, 0.304);  
  color: rgb(224, 220, 222);  
}
```

```
input::placeholder {  
  color: #d068ac;  
}
```

```
button {
```

```
background-color: #ff6fb5;
color: rgb(246, 241, 244);
font-weight: bold;
transition: all 0.3s ease;
border: none;
}
```

```
button:hover {
background-color: #ff4d94;
transform: scale(1.03);
}
```

```
.hasil {
margin-top: 15px;
font-size: 18px;
font-weight: bold;
color: #ede8e8;
}
```

</style>

</head>

<body>

<div class="calculator">

<h2> 🧮 Kalkulator Ilmiah</h2>

<input type="number" id="angka1" placeholder="Masukkan angka pertama">

<input type="number" id="angka2" placeholder="Masukkan angka kedua (jika perlu)">

<select id="operasi">

<option value="">-- Pilih Operasi --</option>

<option value="tambah">Tambah (+)</option>

<option value="kurang">Kurang (-)</option>

<option value="kali">Kali (x)</option>

<option value="bagi">Bagi (÷)</option>

```

<option value="modulus">Modulus (%)</option>
<option value="pangkat">Pangkat (^)</option>
<option value="akar">Akar Kuadrat (√)</option>
<option value="log">Logaritma (log base 10)</option>
<option value="sin">sin(θ)</option>
<option value="cos">cos(θ)</option>
<option value="tan">tan(θ)</option>
</select>

<button onclick="hitung()">Hitung</button>

<div class="hasil" id="hasil"></div>
</div>

<script>
function hitung() {
  const a = parseFloat(document.getElementById('angka1').value);
  const b = parseFloat(document.getElementById('angka2').value);
  const op = document.getElementById('operasi').value;
  const hasilEl = document.getElementById('hasil');
  let hasil = "";

  try {
    switch (op) {
      case "tambah":
        hasil = a + b;
        break;
      case "kurang":
        hasil = a - b;
        break;
      case "kali":
        hasil = a * b;
        break;
    }
  }
}

```

```
case "bagi":
    if (b === 0) throw "Tidak bisa dibagi dengan 0";
    hasil = a / b;
    break;
case "modulus":
    hasil = a % b;
    break;
case "pangkat":
    hasil = Math.pow(a, b);
    break;
case "akar":
    if (a < 0) throw "Tidak bisa akar dari angka negatif";
    hasil = Math.sqrt(a);
    break;
case "log":
    if (a <= 0) throw "Logaritma tidak terdefinisi untuk angka  $\leq 0$ ";
    hasil = Math.log10(a);
    break;
case "sin":
    hasil = Math.sin(toRadians(a));
    break;
case "cos":
    hasil = Math.cos(toRadians(a));
    break;
case "tan":
    hasil = Math.tan(toRadians(a));
    break;
default:
    hasil = "Silakan pilih operasi";
}
```

```

if (!isNaN(hasil)) {
    hasilEl.innerHTML = `Hasil: ${hasil.toFixed(6)}`;
} else {
    hasilEl.innerHTML = "❌ Hasil tidak valid.";
}
} catch (err) {
    hasilEl.innerHTML = `❌ ${err}`;
}
}

function toRadians(degree) {
    return degree * (Math.PI / 180);
}

</script>
</body>
</html>

```

Berikut cara singkat dan padat menggunakan kalkulator ilmiah ini:

1. **Masukkan angka pertama** di kolom "Masukkan angka pertama".
2. **Masukkan angka kedua** jika operasi yang dipilih memerlukan dua angka (misalnya tambah, pangkat, bagi, dll).
3. **Pilih jenis operasi** dari dropdown (misalnya: tambah, akar, sin, log).
4. Klik tombol "**Hitung**".
5. Hasil akan muncul di bawah tombol dalam kotak "**Hasil**".

✅ Untuk operasi seperti **akar, log, sin, cos, tan**, cukup isi **angka pertama saja**.

❌ Jangan isi angka kedua jika tidak diperlukan.