Glad you liked the functionality! Here’s a breakdown of how everything works:

**1️⃣ Sidebar Layout (.sidebar)**

.sidebar {

width: 250px;

height: 100vh;

position: fixed;

left: 0;

top: 0;

background-color: #343a40;

color: white;

padding: 20px;

}

🔹 **Width & Height:** 250px wide and 100vh tall, making it take up the full left side of the screen.  
🔹 **Position:** fixed, so it always stays on the left, even when scrolling.  
🔹 **Background:** #343a40 (dark gray, Bootstrap-like sidebar color).  
🔹 **Padding:** 20px for spacing inside.

**2️⃣ Main Content Area (.main-content)**

.main-content {

margin-left: 260px;

padding: 20px;

text-align: center;

}

🔹 **margin-left: 260px** pushes the content to the right so it doesn’t overlap with the sidebar.  
🔹 **Centered text:** text-align: center;

**3️⃣ The Guide Section (.guide)**

.guide {

background: #f8f9fa;

padding: 15px;

border-radius: 10px;

margin-bottom: 20px;

}

🔹 **Background:** Light gray (#f8f9fa) to make it stand out.  
🔹 **Rounded Corners:** border-radius: 10px for a softer look.  
🔹 **Bottom Margin:** margin-bottom: 20px; so it doesn’t stick to the list.

**4️⃣ The Expandable List**

<ul class="category-list">

<li class="category" onclick="toggleCategory(this)">🔹 Summation & Factorial</li>

<ul class="sub-list">

<li>1️⃣ Sum of first N numbers</li>

<li>2️⃣ Factorial calculation</li>

<li>3️⃣ Sum of even numbers</li>

<li>4️⃣ Sum of odd numbers</li>

<li>5️⃣ Sum of squares</li>

</ul>

</ul>

🔹 **Each category (.category) is clickable** → Calls toggleCategory(this).  
🔹 **Each sub-list (.sub-list) is initially hidden.**

**CSS: Default State**

.sub-list {

display: none;

list-style-type: none;

padding-left: 20px;

}

🔹 **Hides the sub-items** (display: none;)  
🔹 **Indented padding** so sub-items appear nested.

**5️⃣ JavaScript for Expanding/Collapsing**

function toggleCategory(category) {

let subList = category.nextElementSibling; // Gets the <ul> right after the clicked category

let isExpanded = subList.style.display === "block";

document.querySelectorAll('.sub-list').forEach(list => list.style.display = "none");

document.querySelectorAll('.category').forEach(cat => cat.classList.remove('selected'));

if (!isExpanded) {

subList.style.display = "block"; // Show clicked sub-list

category.classList.add('selected'); // Change category color

}

}

🔹 **Finds the next <ul>** (sub-list) and toggles it.  
🔹 **Collapses all other sub-lists** to ensure only one is open at a time.  
🔹 **Adds a .selected class** to change the color of the clicked category.

**CSS for the Selected State**

.selected {

background: #007bff;

color: white;

padding: 5px;

border-radius: 5px;

}

🔹 **Changes the color to blue (#007bff)** when clicked.  
🔹 **Rounded corners and padding** to make the selection stand out.

**Summary**

✅ **Fixed sidebar** on the left.  
✅ **Guide on top, centered.**  
✅ **Expandable categories with sub-items** that appear when clicked.  
✅ **Only one category expands at a time.**  
✅ **Clicked category changes color** for better UI feedback.

Let me know if you need modifications! 🚀