Build the Scientific Calculator

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Overview

The CSS code complements the HTML and JavaScript code, enhancing the appearance and layout of the web-based scientific calculator. It applies styles to different elements, including the calculator container, display field, buttons, and their respective categories (numbers, operators, and functions).

Design Choices

Flexbox Layout:

The overall layout of the calculator is achieved using the `display: flex` property, which centers the calculator vertically and horizontally on the page (`justify-content: center` and `align-items: center`).

Color Scheme:

The calculator features a dark theme with various shades of black, gray, and contrasting colors for buttons to create an elegant and visually appealing interface.

Button Styling:

The buttons are styled consistently with rounded corners (`border-radius: 6px`) and a subtle box shadow (`box-shadow`) to provide a 3D-like effect.

Button Categories:

Buttons are categorized into numbers, operators, and functions. Each category has a distinct background color and a corresponding border color to differentiate them visually.

Responsive Design:

The calculator is designed to be responsive with a fixed width of 300px (`width: 300px`) to ensure it remains usable across various screen sizes.

Instructions to Get the Final Output

HTML, CSS, and JS Files:

Make sure you have the HTML code in the `main.html` file, the CSS code in the `styles.css` file, and the JavaScript code in the `script.js` file. Ensure that all three files are saved in the same directory.

Linking CSS File:

In the `main.html` file, make sure the `<link>` tag for the CSS file points to the correct file path.

Linking JavaScript File:

In the `main.html` file, make sure the `<script>` tag for the JavaScript file points to the correct file path.

Opening in a Web Browser:

Open the `main.html` file in a web browser. The calculator should now be visible with the CSS styles applied.

Using the Calculator:

You can now use the web-based scientific calculator with the enhanced appearance. The buttons will be styled with different colors based on their categories, and the calculator will be centered on the page.

Responsive Behavior:

The calculator should adjust its layout and remain functional across various screen sizes due to the responsive design.