

TASK-2 :- Build the Scientific Calculator

1. HTML Structure

Create the basic HTML structure of the calculator. Use appropriate HTML tags to define the different sections, such as the display area, buttons, and other elements.

2. CSS Styling

Apply CSS styling to make the calculator visually appealing. Design the layout, colors, and typography as per your preference. Use CSS classes and IDs to target specific elements for styling.

3. JavaScript Functionality

3.1. *Basic Arithmetic Operations*

Implement functions for basic arithmetic operations, such as addition, subtraction, multiplication, and division. These functions should take two input values, perform the corresponding operation, and display the result on the calculator's display area.

3.2. *Clear and Delete Functionality*

Add functionality to clear the display area and delete individual digits.

3.3. *Scientific Functions*

Implement functions for scientific operations like square root, exponentiation, trigonometric functions (sin, cos, tan), and logarithms. These functions should take appropriate input values, perform the calculation, and display the result on the calculator's display area.

3.4. *Event Handling*

Attach event listeners to the calculator buttons to capture user input. Write event handler functions that respond to button clicks and perform the corresponding actions based on the button pressed.

3.5. *Error Handling*

Implement error handling to handle scenarios such as dividing by zero or performing square root on negative numbers. Display appropriate error messages to the user.