**HTML**

1. HTML Structure

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Online Calculator</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="calculator">

<input type="text" id="display" disabled>

<div class="buttons">

<button onclick="clearDisplay()">AC</button>

<button onclick="appendToDisplay('%')">%</button>

<button onclick="appendToDisplay('\*\*2')">x²</button>

<button onclick="appendToDisplay('/')">/</button>

<button onclick="appendToDisplay('7')">7</button>

<button onclick="appendToDisplay('8')">8</button>

<button onclick="appendToDisplay('9')">9</button>

<button onclick="appendToDisplay('')"></button>

<button onclick="appendToDisplay('4')">4</button>

<button onclick="appendToDisplay('5')">5</button>

<button onclick="appendToDisplay('6')">6</button>

<button onclick="appendToDisplay('-')">-</button>

<button onclick="appendToDisplay('1')">1</button>

<button onclick="appendToDisplay('2')">2</button>

<button onclick="appendToDisplay('3')">3</button>

<button onclick="appendToDisplay('+')">+</button>

<button onclick="appendToDisplay('0')">0</button>

<button onclick="appendToDisplay('.')">.</button>

<button onclick="calculateResult()">=</button>

</div>

</div>

<script src="script.js"></script>

</body>

</html>

**CSS**

2. CSS for Layout and Styling

This will style the calculator to look organized and visually appealing.

body {

font-family: Arial, sans-serif;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

background-color: #f4f4f4;

}

.calculator {

width: 300px;

padding: 20px;

background-color: #fff;

border-radius: 10px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

#display {

width: 100%;

height: 50px;

margin-bottom: 10px;

font-size: 24px;

text-align: right;

padding: 10px;

box-sizing: border-box;

}

.buttons {

display: grid;

grid-template-columns: repeat(4, 1fr);

gap: 10px;

}

button {

padding: 20px;

font-size: 18px;

background-color: #f2f2f2;

border: none;

border-radius: 5px;

cursor: pointer;

}

button:hover {

background-color: #ddd;

}

**Javascript**

3. JavaScript Logic

This will manage the functionality of the calculator, handling button clicks, calculations, and clearing the display.

// Clear the display

function clearDisplay() {

document.getElementById('display').value = '';

}

// Append clicked button value to the display

function appendToDisplay(value) {

document.getElementById('display').value += value;

}

// Calculate the result based on the input in the display

function calculateResult() {

const display = document.getElementById('display');

try {

display.value = eval(display.value);

} catch (error) {

display.value = "Error"; // Error handling for invalid input

}

}