**WT Assignment 4**

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**Simple Calculator**

**Code:**

1. **index.html**

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

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

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

**<title>Simple Calculator</title>**

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

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

**</head>**

**<body>**

**<div class="calculator">**

**<h2>Simple Calculator</h2>**

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

**<table>**

**<tr>**

**<td><button onclick="clearDisplay()">C</button></td>**

**<td><button onclick="backspace()">←</button></td>**

**<td><button onclick="insert('%')">%</button></td>**

**<td><button onclick="insert('/')">/</button></td>**

**</tr>**

**<tr>**

**<td><button onclick="insert('7')">7</button></td>**

**<td><button onclick="insert('8')">8</button></td>**

**<td><button onclick="insert('9')">9</button></td>**

**<td><button onclick="insert('\*')">\*</button></td>**

**</tr>**

**<tr>**

**<td><button onclick="insert('4')">4</button></td>**

**<td><button onclick="insert('5')">5</button></td>**

**<td><button onclick="insert('6')">6</button></td>**

**<td><button onclick="insert('-')">-</button></td>**

**</tr>**

**<tr>**

**<td><button onclick="insert('1')">1</button></td>**

**<td><button onclick="insert('2')">2</button></td>**

**<td><button onclick="insert('3')">3</button></td>**

**<td><button onclick="insert('+')">+</button></td>**

**</tr>**

**<tr>**

**<td><button onclick="square()">x²</button></td>**

**<td><button onclick="insert('0')">0</button></td>**

**<td><button onclick="insert('.')">.</button></td>**

**<td><button onclick="calculate()">=</button></td>**

**</tr>**

**</table>**

**</div>**

**</body>**

**</html>**

1. **styles.css**

**body {**

**font-family: Arial, sans-serif;**

**display: flex;**

**justify-content: center;**

**align-items: center;**

**height: 100vh;**

**background-color: #f0f0f0;**

**}**

**.calculator {**

**background-color: #4caf50;**

**padding: 20px;**

**border-radius: 10px;**

**box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.2);**

**text-align: center;**

**}**

**h2 {**

**color: white;**

**}**

**#display {**

**width: 95%;**

**height: 40px;**

**font-size: 20px;**

**text-align: right;**

**margin-bottom: 10px;**

**padding: 5px;**

**border-radius: 5px;**

**border: none;**

**}**

**table {**

**width: 100%;**

**}**

**button {**

**width: 100%;**

**height: 50px;**

**font-size: 18px;**

**margin: 5px;**

**border-radius: 5px;**

**border: none;**

**cursor: pointer;**

**}**

**button:hover {**

**opacity: 0.8;**

**}**

**button:active {**

**transform: scale(0.95);**

**}**

1. **script.js**

**function insert(value) {**

**document.getElementById("display").value += value;**

**}**

**function clearDisplay() {**

**document.getElementById("display").value = "";**

**}**

**function backspace() {**

**let display = document.getElementById("display").value;**

**document.getElementById("display").value = display.slice(0, -1);**

**}**

**function square() {**

**let display = document.getElementById("display").value;**

**if (display === "") {**

**alert("Please enter a number first!");**

**} else if (isNaN(display)) {**

**alert("Invalid input! Enter a valid number.");**

**} else {**

**document.getElementById("display").value = Math.pow(parseFloat(display), 2);**

**}**

**}**

**function calculate() {**

**let expression = document.getElementById("display").value;**

**try {**

**if (expression === "") {**

**alert("Please enter an expression to calculate!");**

**return;**

**}**

**let result = eval(expression); // Using eval for simplicity, avoid in real-world projects**

**if (!isFinite(result)) {**

**alert("Math error! Check your expression.");**

**return;**

**}**

**document.getElementById("display").value = result;**

**} catch (error) {**

**alert("Invalid expression!");**

**}**

**}**

1. **Output:**

**A green calculator with blue buttons

AI-generated content may be incorrect.**

**A green calculator with blue buttons

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a calculator

AI-generated content may be incorrect.**