**Task 1;**

**Calculator**

Using HTML,CSS,JS

HTML Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Calculator</title>

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

</head>

<body>

<div class="calculator">

<div id="display" class="display">0</div>

<div class="buttons">

<button class="btn" onclick="clearDisplay()">C</button>

<button class="btn" onclick="deleteLast()">DEL</button>

<button class="btn" onclick="appendOperator('/')">/</button>

<button class="btn" onclick="appendOperator('')"></button>

<button class="btn" onclick="appendNumber(7)">7</button>

<button class="btn" onclick="appendNumber(8)">8</button>

<button class="btn" onclick="appendNumber(9)">9</button>

<button class="btn" onclick="appendOperator('-')">-</button>

<button class="btn" onclick="appendNumber(4)">4</button>

<button class="btn" onclick="appendNumber(5)">5</button>

<button class="btn" onclick="appendNumber(6)">6</button>

<button class="btn" onclick="appendOperator('+')">+</button>

<button class="btn" onclick="appendNumber(1)">1</button>

<button class="btn" onclick="appendNumber(2)">2</button>

<button class="btn" onclick="appendNumber(3)">3</button>

<button class="btn equal" onclick="calculate()">=</button>

<button class="btn zero" onclick="appendNumber(0)">0</button>

<button class="btn" onclick="appendOperator('.')">.</button>

</div>

</div>

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

</body>

</html>

CSS Code:

/\* styles.css \*/

body {

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

background-color: #f5f5f5;

margin: 0;

font-family: Arial, sans-serif;

}

.calculator {

width: 400px;

background-color: #ffffff;

border-radius: 8px;

box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);

overflow: hidden;

}

.display {

background-color: #222;

color: #fff;

font-size: 2em;

padding: 20px;

text-align: right;

border-bottom: 1px solid #ccc;

}

.buttons {

display: grid;

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

gap: 1px;

}

.btn {

padding: 20px;

font-size: 1.5em;

border: none;

background-color: #f0f0f0;

cursor: pointer;

transition: background-color 0.3s;

}

.btn:hover {

background-color: #ddd;

}

.btn.zero {

grid-column: span 2;

}

.btn.equal {

grid-row: span 2;

background-color: #ff8c00;

color: #fff;

}

.btn.equal:hover {

background-color: #e67e22;

}

Java Script Code:

// script.js

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

let currentInput = '';

let operator = '';

let firstOperand = '';

let secondOperand = '';

function appendNumber(number) {

currentInput += number;

display.innerText = currentInput;

}

function appendOperator(op) {

if (currentInput === '') return;

if (operator !== '') calculate();

firstOperand = currentInput;

operator = op;

currentInput = '';

}

function calculate() {

if (currentInput === '' || firstOperand === '') return;

secondOperand = currentInput;

let result = 0;

switch (operator) {

case '+':

result = parseFloat(firstOperand) + parseFloat(secondOperand);

break;

case '-':

result = parseFloat(firstOperand) - parseFloat(secondOperand);

break;

case '\*':

result = parseFloat(firstOperand) \* parseFloat(secondOperand);

break;

case '/':

result = parseFloat(firstOperand) / parseFloat(secondOperand);

break;

default:

return;

}

display.innerText = result;

currentInput = result;

operator = '';

firstOperand = '';

secondOperand = '';

}

function clearDisplay() {

currentInput = '';

operator = '';

firstOperand = '';

secondOperand = '';

display.innerText = '0';

}

function deleteLast() {

currentInput = currentInput.slice(0, -1);

display.innerText = currentInput || '0';

}

Output;

