Q1 html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Font Size Animation</title>

<style>

#text {

font-family: Arial, sans-serif;

font-size: 5pt;

color: red;

}

</style>

</head>

<body>

<div id="text">FONT+++</div>

<script>

let fontSize = 5; // Initial font size

let isIncreasing = true; // Flag to check if the font size is increasing

const textElement = document.getElementById('text');

const intervalTime = 200; // Interval time in milliseconds

// Function to change font size

function changeFontSize() {

if (isIncreasing) {

// Increase font size until it reaches 40pt

if (fontSize < 40) {

fontSize += 1;

textElement.style.fontSize = fontSize + 'pt';

} else {

// Once font size reaches 40pt, change text and color, then start decreasing

textElement.textContent = "FONT---";

textElement.style.color = 'blue';

isIncreasing = false; // Start decreasing font size

}

} else {

// Decrease font size until it reaches 4pt

if (fontSize > 4) {

fontSize -= 1;

textElement.style.fontSize = fontSize + 'pt';

} else {

// Stop the process once font size reaches 4pt

clearInterval(intervalId);

}

}

}

// Set interval to change font size every 200ms

const intervalId = setInterval(changeFontSize, intervalTime);

</script>

</body>

</html>



Q2

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>

<style>

body {

font-family: Arial, sans-serif;

background-color: #f4f4f4;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

}

.calculator {

background-color: #ffffff;

border-radius: 10px;

box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

padding: 20px;

width: 250px;

}

h2 {

text-align: center;

margin-bottom: 20px;

color: #333;

}

.display {

width: 100%;

height: 50px;

margin-bottom: 20px;

font-size: 24px;

text-align: right;

padding: 10px;

border: 2px solid #ccc;

border-radius: 5px;

background-color: #fafafa;

}

.buttons {

display: grid;

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

gap: 10px;

}

button {

padding: 15px;

font-size: 18px;

border: none;

border-radius: 5px;

background-color: #4CAF50;

color: white;

cursor: pointer;

transition: background-color 0.3s;

}

button:hover {

background-color: #45a049;

}

button:active {

background-color: #3e8e41;

}

.operation {

background-color: #f44336;

}

.operation:hover {

background-color: #e53935;

}

.operation:active {

background-color: #d32f2f;

}

.clear {

background-color: #2196F3;

}

.clear:hover {

background-color: #1976D2;

}

.clear:active {

background-color: #1565C0;

}

.equal {

background-color: #9C27B0;

grid-column: span 2;

}

.equal:hover {

background-color: #8E24AA;

}

.equal:active {

background-color: #7B1FA2;

}

</style>

</head>

<body>

<div class="calculator">

<h2>Calculator</h2>

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

<div class="buttons">

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<button onclick="appendToDisplay('\*')" class="operation">×</button>

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

</div>

</div>

<script>

// Display update function

function appendToDisplay(value) {

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

}

// Clear the display

function clearDisplay() {

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

}

// Perform the calculation

function calculate() {

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

try {

display.value = eval(display.value);

} catch (error) {

display.value = 'Error';

}

}

</script>

</body>

</html>

