**index.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <title>String Comparison</title>

</head>

<body>

<h1>String Comparison</h1>

<label for="string1">String 1:</label>

<input type="text" id="string1" value="JavaScript Program"><br><br>

<label for="string2">String 2:</label>

<input type="text" id="string2" value="javascript program"><br><br>

<button onclick="compareStrings()">Compare Strings</button>

<h2>Result:</h2>

<p id="result"></p>

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

</body>

</html>

# script.js

1.function compareStrings() {

    // Get input values

    const string1 = document.getElementById('string1').value;

    const string2 = document.getElementById('string2').value;

    // Create regex for comparison

    const pattern = new RegExp(string1, "gi");

    // Compare the strings

    const result = pattern.test(string2);

    // Display the result on the page

    const resultText = result

        ? 'The strings are similar.'

        : 'The strings are not similar.';

    document.getElementById('result').innerHTML = resultText;

}

2. function compareStrings() {

    // Get input values

    const string1 = document.getElementById('string1').value;

    const string2 = document.getElementById('string2').value;

    // Compare both strings using toUpperCase()

    const result = string1.toUpperCase() === string2.toUpperCase();

    // Display the result on the page

    const resultText = result

        ? 'The strings are similar.'

        : 'The strings are not similar.';

    document.getElementById('result').innerHTML = resultText;

}

3. function compareStrings() {

    // Get input values

    const string1 = document.getElementById('string1').value;

    const string2 = document.getElementById('string2').value;

    // Compare using localeCompare for case insensitive comparison

    const result = string1.localeCompare(string2, undefined, { sensitivity: 'base' });

    // Display the result on the page

    const resultText = result === 0

        ? 'The strings are similar.'

        : 'The strings are not similar.';

    document.getElementById('result').innerHTML = resultText;

}

OUTPUT-

A screenshot of a computer

Description automatically generated