



Society for Computer Technology & Research's
Pune Institute of Computer Technology
Department of Electronics and Telecommunication Engineering

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Practical No: 4 Write a JavaScript program to compare two strings using various methods.

Code:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>String Comparison</title>
</head>
<body>
  <h1>String Comparison</h1>
  <label for="string1">String 1:</label>
  <input type="text" id="string1" placeholder="Enter first string">
  <br>
  <label for="string2">String 2:</label>
  <input type="text" id="string2" placeholder="Enter second string">
  <br>
  <button id="compareButton">Compare</button>
  <p id="result"></p>
  <script src="script.js"></script>
</body>
</html>
```

Script.js

```
const string1Input = document.getElementById("string1");
const string2Input = document.getElementById("string2");
const compareButton = document.getElementById("compareButton");
const resultDisplay = document.getElementById("result");

compareButton.addEventListener("click", compareStrings);

function compareStrings() {
  const string1 = string1Input.value;
  const string2 = string2Input.value;
```



```
const localeCompareResult = string1.localeCompare(string2) === 0;

const strictEqualityResult = string1 === string2;

const regexComparison = compareWithRegex(string1, string2);

const lengthComparison = string1.length === string2.length;

const lowercaseComparison = string1.toLowerCase() === string2.toLowerCase();

resultDisplay.innerHTML = `
    <p>Comparison using localeCompare: ${localeCompareResult}</p>
    <p>Comparison using strict equality (===): ${strictEqualityResult}</p>
    <p>Comparison using regex: ${regexComparison}</p>
    <p>Comparison based on length: ${lengthComparison}</p>
    <p>Comparison after converting to lowercase: ${lowercaseComparison}</p>
`;
}

function compareWithRegex(str1, str2) {
    const regex = new RegExp(`^${str1}$`, 'i');
    return regex.test(str2);
}
```

Output:

