

## Experiment No. 04

Name: Prathmesh Bonde

Class: BE5 P5

Roll Number: 42115

Subject: JavaScript

HTML Code –

```
<!-- Name : Prathmesh Bonde
Roll No : 42115 -->

<!DOCTYPE html>
<html>

<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <title>Compare Strings</title>
  <script src="Expt4.js"></script>
</head>

<body>
  <label for="string1">Enter string 1:</label>
  <input type="text" id="str1" />
  <br /><br />

  <label for="string2">Enter string 2:</label>
  <input type="text" id="str2" />
  <br /><br />

  <button onclick="method1()">Compare Strings</button><br /><br />
  <p>String Comparison Using strict equality: <span id="display1"></span></p>

  <button onclick="method2()">Compare Strings</button><br /><br />
  <p>String Comparison Using extra variable: <span id="display2"></span></p>

  <button onclick="method3()">Compare Strings</button><br /><br />
  <p>String Comparison Using local Compare: <span id="display3"></span></p>
  <br /><br />
</body>

</html>
```

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Javascript Code –

```
// Name: Prathmesh Bonde
// Roll No.: 42115

function method1() {
  console.log('M1');
  let s1 = 'true';
```

```

s1 = document.getElementById('str1').value;
let s2 = 'true';
s2 = document.getElementById('str2').value;

var a = s1.length;
var b = s2.length;
if (a === b) {
    var i,
        f = 1;
    for (i = 0; i < a; i++) {
        if (s1.charAt(i) !== s2.charAt(i)) {
            f = 0;
        }
    }
    if (f == 1)
        document.getElementById('display1').innerHTML = 'Strings are equal';
    else
        document.getElementById('display1').innerHTML = 'Strings are not
equal';
} else
    document.getElementById('display1').innerHTML = 'Strings are not equal';
}

function method2() {
    var str1 = document.getElementById('str1').value;
    var str2 = document.getElementById('str2').value;
    console.log(str1);
    console.log(str2);

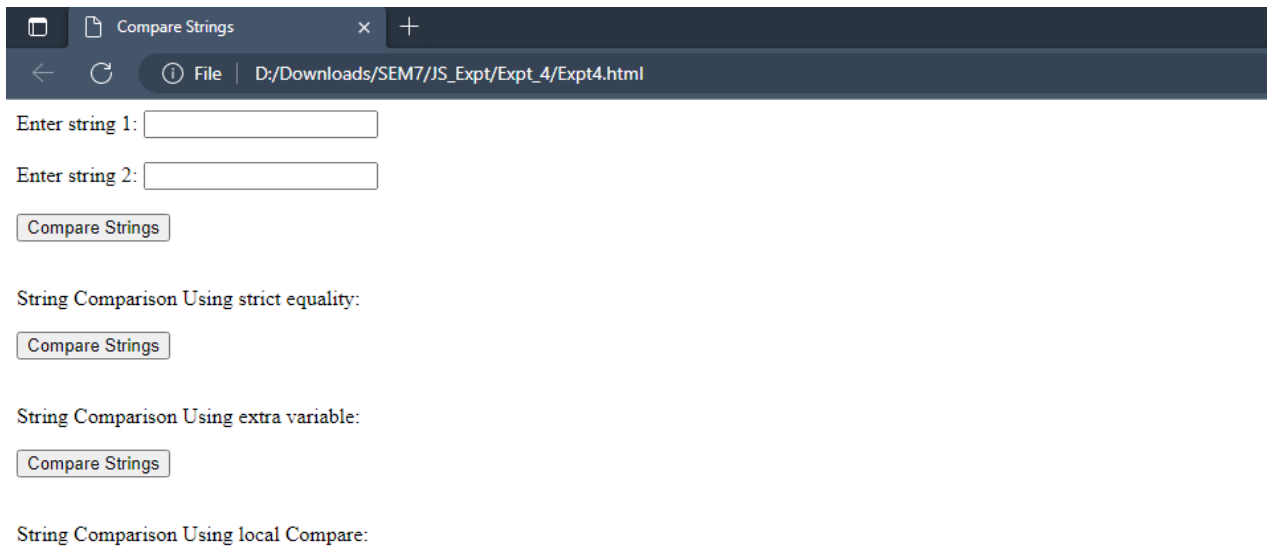
    var st1 = str1.toLowerCase();
    var st2 = str2.toLowerCase();
    let val = st1 == st2;
    let s = val.toString();
    console.log(s);
    if (s == 'true')
        document.getElementById('display2').innerHTML = 'Strings are equal';
    else document.getElementById('display2').innerHTML = 'Strings are not equal';
}

function method3() {
    var str1 = document.getElementById('str1').value;
    var str2 = document.getElementById('str2').value;
    var st1 = str1.toLowerCase();
    var st2 = str2.toLowerCase();

    let val = st1.localeCompare(st2);
    let s = val.toString();
    console.log(s);
    document.getElementById('display3').innerHTML =
        s == 0 ? 'Strings are equal' : 'Strings are not equal';
}

```

Output –



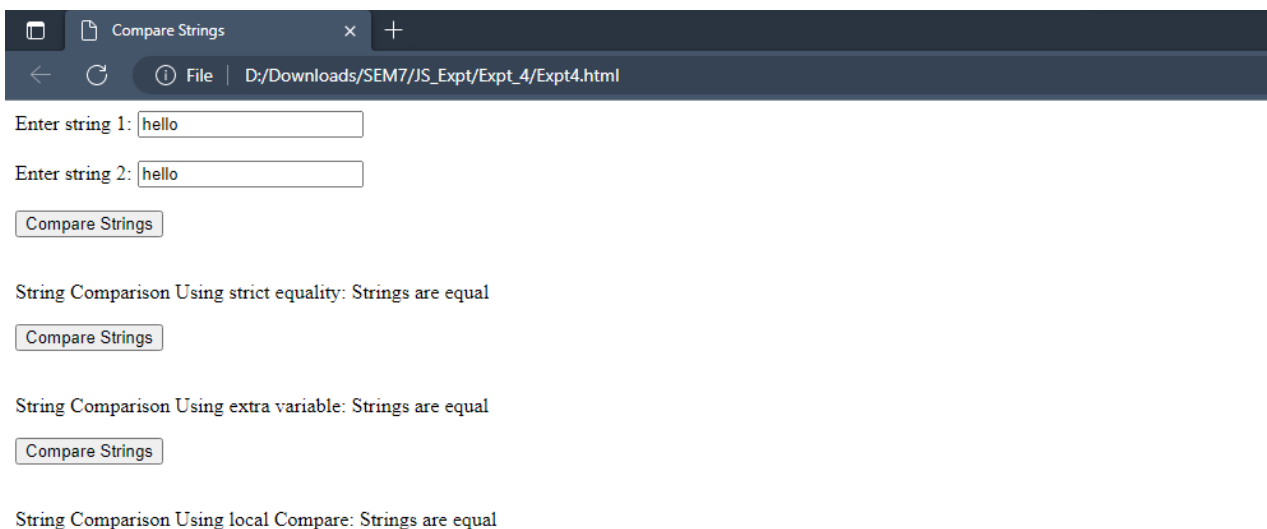
Enter string 1:

Enter string 2:

String Comparison Using strict equality:

String Comparison Using extra variable:

String Comparison Using local Compare:



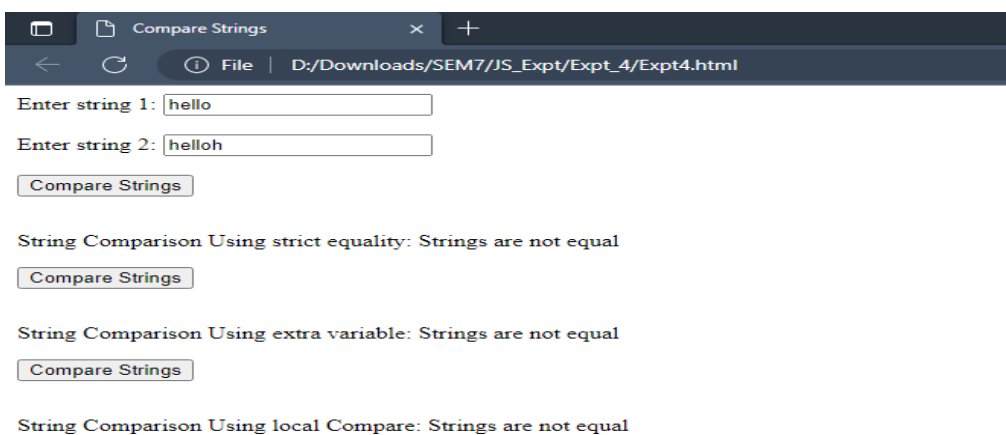
Enter string 1:

Enter string 2:

String Comparison Using strict equality: Strings are equal

String Comparison Using extra variable: Strings are equal

String Comparison Using local Compare: Strings are equal



Enter string 1:

Enter string 2:

String Comparison Using strict equality: Strings are not equal

String Comparison Using extra variable: Strings are not equal

String Comparison Using local Compare: Strings are not equal