

## String Comparison in JavaScript

Roll no: 42427 Name: Aditi Kalegaonkar Div: BE6 Q6

Compare

Comparing "Java" and "Script".

### 1. Strict Equality Operator

The strings are NOT strictly equal.

### 2. Length Property

string2 is longer than string1 (6 > 4).

### 3. Using LocalCompare()

"Java" comes before "Script" alphabetically.

## String Comparison in JavaScript

Roll no: 42427 Name: Aditi Kalegaonkar Div: BE6 Q6

Compare

Comparing "Script" and "Script".

### 1. Strict Equality Operator

The strings are strictly equal.

### 2. Length Property

Both strings have the same length (6).

### 3. Using LocalCompare()

The strings are alphabetically equal.

## String Comparison in JavaScript

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Compare

### 1. Strict Equality Operator

### 2. Length Property

### 3. Using LocalCompare()

HTML : -

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>JavaScript String Comparison</title>
```

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

```
</head>
```

```
<body>
```

JavaScript EXP\_4  
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```
<div class="container">
  <h1>String Comparison in JavaScript</h1>
  <div style="text-align: center;">
    Roll no: 42427
    Name: Aditi Kalegaonkar
    Div: BE6 Q6
  </div>
  <div class="input-area">
    <input type="text" id="stringInput1" placeholder="Enter
the first string...">
    <input type="text" id="stringInput2" placeholder="Enter
the second string...">
    <button id="compareBtn"
onclick="compareStrings()">Compare</button>
  </div>
  <div id="results-area" class="hidden">
    <p id="comparisonIntro"></p>
    <h4>1. Strict Equality Operator</h4>
    <p id="equalityResult"></p>
    <h4>2. Length Property</h4>
    <p id="lengthResult"></p>
    <h4>3.Using LocalCompare()</h4>
    <p id="localeResult"></p>
  </div>
</div>
<script src="script.js"></script>
</body>
</html>
```

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CSS : -

```
body {  
    font-family: Arial, sans-serif;  
    background-color: #f4f4f9;  
    color: #333;  
    display: grid;  
    place-items: center;  
    height: 100vh;  
    margin: 0;  
    padding: 20px;  
}  
  
.container {  
    background-color: #ffffff;  
    padding: 20px 30px;  
    border-radius: 8px;  
    border: 1px solid #ccc;  
    width: 100%;  
    max-width: 600px;  
    max-height: 95vh;  
    overflow-y: auto;  
}  
  
h1 {  
    color: #0056b3;  
    text-align: center;  
    border-bottom: 2px solid #0056b3;  
    padding-bottom: 10px;  
    margin-top: 0;  
}
```

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```
h2 {
    color: #28a745;
    margin-top: 25px;
}

p {
    background-color: #e9ecef;
    padding: 15px;
    border-radius: 5px;
    font-size: 1.1em;
    line-height: 1.6;
    word-wrap: break-word;
}

.input-area {
    display: grid;
    gap: 10px;
    margin: 25px 0;
}

input {
    font-size: 1em;
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 5px;
}

button {
    font-size: 1.1em;
    padding: 10px;
    background-color: #2add5f;
```

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```
    color: #ffffff;  
    border: none;  
    border-radius: 5px;  
    cursor: pointer;  
}
```

```
.results-area.hidden {  
    display: none;  
}
```

JS :-

```
function compareStrings() {  
    const string1 = document.getElementById('stringInput1').value;  
    const string2 = document.getElementById('stringInput2').value;  
    const resultsArea = document.getElementById('results-area');  
  
    if (string1.trim() === '' || string2.trim() === '') {  
        resultsArea.classList.add('hidden');  
        return;  
    }  
    resultsArea.classList.remove('hidden');  
    let equalityOutput;  
    if (string1 === string2) {  
        equalityOutput = `The strings are strictly equal.`;  
    } else {  
        equalityOutput = `The strings are NOT strictly equal.`;  
    }  
    document.getElementById('equalityResult').innerHTML =  
equalityOutput;  
  
    let lengthOutput;
```

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```
const len1 = string1.length;
const len2 = string2.length;
if (len1 > len2) {
    lengthOutput = `<code>string1</code> is longer than
<code>string2</code> (${len1} > ${len2}).`;
} else if (len1 < len2) {
    lengthOutput = `<code>string2</code> is longer than
<code>string1</code> (${len2} > ${len1}).`;
} else {
    lengthOutput = `Both strings have the same length (${len1}).`;
}
document.getElementById('lengthResult').innerHTML = lengthOutput;

let localeOutput;
const comparisonResult = string1.localeCompare(string2);
if (comparisonResult < 0) {
    localeOutput = `<code>"${string1}"</code> comes before
<code>"${string2}"</code> alphabetically.`;
} else if (comparisonResult > 0) {
    localeOutput = `<code>"${string2}"</code> comes before
<code>"${string1}"</code> alphabetically.`;
} else {
    localeOutput = `The strings are alphabetically equal.`;
}
document.getElementById('localeResult').innerHTML = localeOutput;
}
```



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