



## Lab Practice -2 [404184C] : ELECTIVE-III(C) - JavaScript

ACADEMIC YEAR: 2024-25

CLASS	: BE	DIV	: 7	Batch	: R-7	DATE	:
Roll No	42305	ABC ID	: 810-360-343-871	SEMESTER	: I		

Experiment No.: 4

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>
```

```
<link rel="stylesheet" href="style_4.css">
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h1>String Comparison</h1>
```

```
<label for="string1">Enter First String: </label>
```

```
<input type="text" id="string1" placeholder="Enter first string"><br><br>
```

```
<label for="string2">Enter Second String: </label>
```

```
<input type="text" id="string2" placeholder="Enter second string"><br><br>
```

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

```
<div id="comparisonResults"></div>
```

```
<div class="info">
```

```
<h2>Name: Teena Bambal</h2>
```

```
<h3>Roll Number: 42305</h3>
```

```
</div>
```

</div>

<script src="script\_4.js"></script>

</body>

</html>

## CSS ➔

```
body {  
  font-family: Arial, sans-serif;  
  background-color: #f4f4f9;  
  margin: 0;  
  padding: 0;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  height: 100vh;  
}  
  
.container {  
  text-align: center;  
  background-color: #fff;  
  padding: 20px;  
  border-radius: 10px;  
  box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);  
}  
  
input[type="text"] {  
  padding: 10px;  
  width: 60%;  
  margin-bottom: 10px;  
  border: 1px solid #ccc;  
  border-radius: 5px;  
}  
  
button {  
  padding: 10px 20px;
```

```
background-color: #28a745;
```

```
color: white;
```

```
border: none;
```

```
border-radius: 5px;
```

```
cursor: pointer;
```

```
}
```

```
button:hover {
```

```
    background-color: #218838;
```

```
}
```

```
#comparisonResults {
```

```
    margin-top: 20px;
```

```
    font-size: 18px;
```

```
}
```

```
.info {
```

```
    margin-top: 30px;
```

```
}
```

```
h2,
```

```
h3 {
```

```
    margin: 5px;
```

```
    color: #4caf50;
```

```
}
```

JS ➔

```
function compareStrings() {  
    const string1 = document.getElementById("string1").value;  
    const string2 = document.getElementById("string2").value;  
    const resultDiv = document.getElementById("comparisonResults");  
    resultDiv.innerHTML = "";  
    if (!string1 || !string2) {  
        resultDiv.innerHTML = "<p>Please enter both strings to compare.</p>";  
        return;  
    }  
    // Strict equality (===) comparison  
    const strictEqualResult = string1 === string2 ? "Equal" : "Not Equal";  
    // Loose equality (==) comparison  
    const looseEqualResult = string1 == string2 ? "Equal" : "Not Equal";  
    // Length comparison  
    let lengthCompareResult = "Equal";  
    if (string1.length > string2.length) {  
        lengthCompareResult = `${string1} is longer`;  
    } else if (string1.length < string2.length) {  
        lengthCompareResult = `${string2} is longer`;  
    }  
    // localeCompare for alphabetical order  
    const localeCompareResult = string1.localeCompare(string2);  
    let alphabeticOrderResult = "";  
    if (localeCompareResult === 0) {  
        alphabeticOrderResult = "Both strings are equal alphabetically";  
    } else if (localeCompareResult < 0) {  
        alphabeticOrderResult = `${string1} comes before ${string2} alphabetically`;  
    }  
}
```

```
} else {  
    alphabeticOrderResult = `"${string1}" comes after "${string2}" alphabetically`;  
}  
  
// Displaying the results  
resultDiv.innerHTML = `  
    <p><strong>Strict Equality (===):</strong> ${strictEqualResult}</p>  
    <p><strong>Loose Equality (==):</strong> ${looseEqualResult}</p>  
    <p><strong>Length Comparison:</strong> ${lengthCompareResult}</p>  
    <p><strong>Alphabetical Comparison (localeCompare):</strong>  
    ${alphabeticOrderResult}</p>  
    `;  
}
```

Output →

## String Comparison

Enter First String:

Enter Second String:

Compare Strings

**Name: Teena Bambal**  
**Roll Number: 42305**

## String Comparison

Enter First String:

Enter Second String:

Compare Strings

**Strict Equality (===): Not Equal**  
**Loose Equality (==): Not Equal**  
**Length Comparison: Equal**  
**Alphabetical Comparison (localeCompare): "ram" comes before "sam" alphabetically**  
**User-defined Comparison: Not Equal**

**Name: Teena Bambal**  
**Roll Number: 42305**

Date:

Course Teacher Sign