



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

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Practical No: 3 Write a JavaScript program to following operations on a given string, 1. Reverse string 2. Replace characters of a string. 3. String is Palindrome.

Code:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="styles.css">
  <script src="script.js"></script>
  <title>String Operations</title>
</head>
<body>
  <div class="container">
    <div class="operation">
      <h3>Reverse the String</h3>
      <label for="s">Enter the String:</label>
      <input type="text" id="s" placeholder="Enter the String">
      <button onclick="reverse()">Reverse the String</button>
      <p class="output">Output: <span id="display1"></span></p>
    </div>

    <div class="operation">
      <h3>Check Palindrome</h3>
      <label for="string1">Enter a String:</label>
      <input id="string1" placeholder="Enter the string">
      <button onclick="is_pal()">Check Palindrome</button>
      <p class="output">Is palindrome or not: <span id="pal"></span></p>
    </div>

    <div class="operation">
      <h3>Replace Characters</h3>
      <label for="string3">Enter a String:</label>
      <input id="string3" placeholder="Enter the string">
      <br><br>
    </div>
  </div>
```



```
<label for="char1">Character to replace:</label>
<input id="char1" placeholder="Enter the character to be replaced">
<br><br>
<label for="char2">New Character:</label>
<input id="char2" placeholder="Enter the new character">
<br><br>
<button onclick="replaced()">Replace Character</button>
<p class="output">String after replacing: <span id="rep"></span></p>
</div>
</div>
</body>
</html>
```

Script.js

```
function reverse()
{
    var s1 = document.getElementById("string1").value;
    document.getElementById("rev").innerHTML= s1.split("").reverse().join("");
}

function is_pal()
{
    var s1 = document.getElementById("string1").value;
    var s2 = s1.split("").reverse().join("");
    if(s1 === s2)
        document.getElementById("pal").innerHTML = "Yes";
    else
        document.getElementById("pal").innerHTML = "No";
}

function replaced()
{
    var s1 = document.getElementById("string3").value;
    var c1 = document.getElementById("char1").value;
    var c2 = document.getElementById("char2").value;
    var newstr = s1.replace(c1,c2);
    document.getElementById("rep").innerHTML = newstr;
}function reverse(){
var s1=document.getElementById("s").value;

document.getElementById("display1").innerHTML= s1.split("").reverse().join("");
}
```



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Output:

The screenshot shows a web browser window with the address bar displaying 'D:/PICT/BE/JS/Exp3/index.html'. The browser's taskbar at the top includes icons for WhatsApp, Gmail, GitHub, Spotify, and various educational links like 'A2OJ', 'learn', 'DSA', and 'ISRO'. The main content area contains three separate program boxes:

- Reverse the String:** Features an input field with 'javascript', a 'Reverse the String' button, and an output display showing 'tpircsavaj'.
- Check Palindrome:** Features an input field with 'aabbba', a 'Check Palindrome' button, and an output display showing 'Is palindrome or not: Yes'.
- Replace Characters:** Features an input field with 'computer', a 'Character to replace' field with 'p', a 'New Character' field with 'm', a 'Replace Character' button, and an output display showing 'String after replacing: commuter'.