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

```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>
```

```html
        <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

```javascript
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: