



PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE - 411043
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGG.
ACADEMIC YEAR : 2023-24 SEM: 1

CLASS : BE 7 [S7]

SUBJECT : JavaScript

EXPT. NO. : 3

Roll No.: 42372

DATE:

CODE :

```
<!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" />
    <title>String Operations</title>
  </head>
  <body style="text-align: center; background-color: beige">
    <h1>
      Write a Javascript program to following operations on a given string 1.
      Reverse a string. 2. Replace characters of a string. 3. String is
      Palindrome.
    </h1>
    <h2>42372 V Raghavendra Reddy</h2>
    <h3>Reverse a string</h3>
    <label for="reverse">Enter the string to reverse:</label>
    <input type="text" id="reverse" placeholder="Type in the string" />
    <br /><br />
    <button onclick="reverseString()">Reverse!</button>
    <p>Final reversed string: <span id="display"></span></p>
    <br /><br />
    <h3>Replace characters of a string</h3>
    <label for="str">Enter the string:</label>
    <input type="text" id="str" placeholder="Type in the string" />
    <br /><br />
    <label for="char1">Enter the character to be replaced:</label>
    <input
      type="text"
      id="char1"
      placeholder="Type character from the input string"
    />
    <br /><br />
    <label for="char2">Enter replacing character:</label>
    <input type="text" id="char2" placeholder="Type the replacing character" />
    <br /><br />
    <button onclick="replaceS()">Replace!</button>
    <p>Final output string after replacing: <span id="display1"></span></p>
    <br /><br />
    <h3>String is palindrome</h3>
    <label for="palindrome">Enter the string to check palindrome:</label>
    <input type="text" id="palindrome" placeholder="Type in the string" />
    <br /><br />
```



```
<button onclick="palindromeS()">PalindromeCheck!</button>
<p>Final palindrome check: <span id="display2"></span></p>

<br /><br />
<h3>Replace characters of a string [By Index]</h3>
<label for="str">Enter the string:</label>
<input type="text" id="str1" placeholder="Type in the string" />
<br /><br />
<label for="replaceInd">Enter replacing Index:</label>
<input type="number" id="replaceInd" placeholder="Type in the Index" />
<br /><br />
<label for="char2">Enter replacing character:</label>
<input type="text" id="char3" placeholder="Type the replacing character" />
<br /><br />
<button onclick="replaceI()">Replace!</button>
<p>Final output string after replacing: <span id="display3"></span></p>
<br /><br />

<script>
  function reverseString() {
    let final = "";
    let str = document.getElementById("reverse").value;
    for (let i = str.length - 1; i >= 0; i--) {
      final += str[i];
    }
    document.getElementById("display").innerHTML = final;
  }
  function replaceS() {
    let str = document.getElementById("str").value;
    let char1 = document.getElementById("char1").value;
    let char2 = document.getElementById("char2").value;
    if (str.indexOf(char1) > -1 == true) {
      let new_final = str.replaceAll(char1, char2);
      document.getElementById("display1").innerHTML = new_final;
    }
    else {
      alert('Invalid String')
    }
  }
  function palindromeS() {
    let final = "";
    let check_pal = "";
    let str = document.getElementById("palindrome").value;
    for (let i = str.length - 1; i >= 0; i--) {
      final += str[i];
    }
    if (str == final) {
      check_pal = "string is palindrome";
    }
  }
</script>
```



```
else {  
check_pal = "string is not palindrome";}  
document.getElementById("display2").innerHTML = check_pal;  
}  
function replaceI(){  
    let str=document.getElementById("str1").value;  
    let ind = document.getElementById("replaceInd").value;  
    let char2 = document.getElementById("char3").value;  
    if(ind<0 || ind>str.length){  
        alert("invalid index")  
    }  
    else{  
        let x=str[ind]  
        let new_final = str.replaceAll(x, char2);  
        document.getElementById("display3").innerHTML = new_final;  
    }  
  
}  
</script>  
  
</body>  
</html>
```



OUTPUT :

42372 V Raghavendra Reddy

Reverse a string

Enter the string to reverse:

Final reversed string: vahgar

Replace characters of a string

Enter the string:

Enter the character to be replaced:

Enter replacing character:

Final output string after replacing: yaghav

String is palindrome

Enter the string to check palindrome:

Final palindrome check: string is palindrome

Replace characters of a string [By Index]

Enter the string:

Enter replacing Index:

Enter replacing character:

Final output string after replacing: razhav