



DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

Lab Practice -2 [404184C] : ELECTIVE-III(C) - JavaScript									
ACADEMIC YEAR: 2024-25									
CLASS	: BE	DIV	: 6	Batch	: P6	DATE	: / /24		
Roll No	42130	ABC ID	:			SEMESTER	: I		

Experiment No.:

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>String Operations</title>
</head>
<body style="text-align: center">
  <div class="container">
    <h2>String Operations</h2>
    <input type="text" id="inputString" placeholder="Enter string to reverse">
    <button onclick="reverseString()">Reverse String</button>
    <input type="text" id="replaceInputString" placeholder="Enter string for substring replacement">
    <input type="text" id="substring" placeholder="Substring to replace">
    <input type="text" id="newSubstring" placeholder="New substring">
    <button onclick="replaceSubstring()">Replace Substring/button>
    <input type="text" id="palindromeInput" placeholder="Enter string to check palindrome">
    <button onclick="checkPalindrome()">Check Palindrome</button>
    <div class="result" id="result"></div>
  </div>
  <script>
    function reverseString() {
      const inputStr = document.getElementById('inputString').value;
```

```
let reversedStr = inputStr.split(").reverse().join(");
  let reversedStrWithoutMethods = ";
  for (let i = inputStr.length - 1; i \ge 0; i--) {
     reversedStrWithoutMethods += inputStr[i];
  document.getElementById('result').innerHTML = `
  <strong>Reversed (with methods):</strong> ${reversedStr}<br>
  <strong>Reversed (without methods):</strong> ${reversedStrWithoutMethods}}
function replaceSubstring() {
  const inputStr = document.getElementById('replaceInputString').value;
  const substring = document.getElementById('substring').value;
  const newSubstring = document.getElementById('newSubstring').value;
  let replacedStr = inputStr.replace(new RegExp(substring, 'g'), newSubstring);
  let replacedStrWithoutMethods = ";
  for (let i = 0; i < inputStr.length; i++) {
     let match = true;
     for (let j = 0; j < \text{substring.length}; j++) {
       if (inputStr[i + j] !== substring[j]) {
         match = false;
          break;
     if (match) {
       replacedStrWithoutMethods += newSubstring;
       i += substring.length - 1;
     } else {
       replacedStrWithoutMethods += inputStr[i];
  }
  document.getElementById('result').innerHTML = `
  <strong>Replaced (with methods):</strong> ${replacedStr}<br>
  <strong>Replaced (without methods):</strong> ${replacedStrWithoutMethods}
function checkPalindrome() {
  const inputStr = document.getElementById('palindromeInput').value;
  const reversedStr = inputStr.split(").reverse().join(");
  const isPalindrome = inputStr === reversedStr;
  let isPalindromeWithoutMethods = true;
  for (let i = 0; i < inputStr.length / 2; <math>i++) {
     if (inputStr[i] !== inputStr[inputStr.length - 1 - i]) {
       isPalindromeWithoutMethods = false;
       break:
```

Output:



