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<!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>
<h1>42204 Yash Bagade</h1>
<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>
<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>
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<p>Final palindrome check: <span id="display2"></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;
    let new_final = str.replace(char1, char2);
    document.getElementById("display1").innerHTML = new_final;
  }
  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";
    }
    else {check_pal = "string is not palindrome";}
    document.getElementById("display2").innerHTML = check_pal;
  }
</script>
</body>
</html>
```