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//EXP-3

1)

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>String Replace Example</title>
    <script src="script.js"></script>
</head>
<body>
    <h1>String Replacement Tool</h1>
    <label for="originalString">Enter the string:</label>
    <input type="text" id="originalString" placeholder="Enter original string"><br><br>
    <label for="matchString">Enter the text to match:</label>
    <input type="text" id="matchString" placeholder="Enter text to replace"><br><br>
    <label for="patternString">Enter the new pattern:</label>
    <input type="text" id="patternString" placeholder="Enter new text"><br><br>
    <button onclick="replaceText()">Replace</button>
    <h3>Result:</h3>
    <p id="result"></p>
</body>
</html>
```

script.js

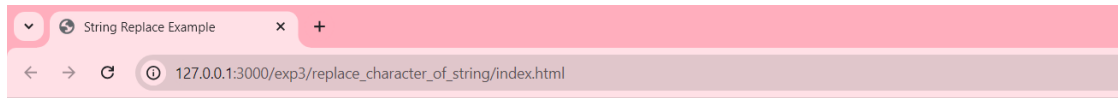
```
function replaceText() {
    const originalString = document.getElementById('originalString').value;
    const matchString = document.getElementById('matchString').value;
```

```

    const patternString = document.getElementById('patternString').value;
    const newString = originalString.replace(matchString, patternString);
    document.getElementById('result').innerText = newString;
}

```

OUTPUT:



String Replacement Tool

Enter the string:

Enter the text to match:

Enter the new pattern:

Result:

ISHWAS

2)

index.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Reverse String</title>
    <script src="script.js" defer></script>
</head>
<body>
    <h2>Reverse a String</h2>
    <label for="inputString">Enter a string: </label>
    <input type="text" id="inputString" placeholder="Enter text here">
    <button onclick="reverseString()">Reverse</button>
    <h3>Reversed String:</h3>
    <p id="result"></p>

```

</body>

</html>

Script.js

```
function reverseString() {  
    const input = document.getElementById('inputString').value;  
    const lengthOfString = input.length;  
    console.log('Length of the string:', lengthOfString);  
    let reversedString = '';  
    for (let i = lengthOfString - 1; i >= 0; i--) {  
        reversedString += input[i];  
    }  
    document.getElementById('result').textContent = reversedString;  
  
}
```

OUTPUT:



Reverse a String

Enter a string:

Reversed String:

RAWHSI

3)

index.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Palindrome Checker</title>

<script src="script.js"></script>

</head>

```
<body>

  <label for="userInput">Enter a string:</label>

  <input type="text" id="userInput">

  <button onclick="checkPalindrome()">Check</button>

  <p id="result"></p>

</body>

</html>
```

script.js

```
function checkPalindrome() {

  let inputString = document.getElementById("userInput").value;

  let lowerCaseString = inputString.toLowerCase();

  let reversedString = lowerCaseString.split('').reverse().join('');

  if (lowerCaseString.localeCompare(reversedString) === 0) {

    document.getElementById("result").innerHTML = "The string is a  
palindrome.";

  } else {

    document.getElementById("result").innerHTML = "The string is not a  
palindrome.";

  }

}
```

OUTPUT:

