

JavaScript Assignment - 03

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DOP :

Git Repo Link :

Source Code :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Exp 3 - String Operations (Revised)</title>
  <style>
    body {
      font-family: 'Segoe UI', Arial, sans-serif;
      background: linear-gradient(93deg, #e0eaf 0%, #f3f2f4 100%);
      margin: 0;
      min-height: 100vh;
    }
    .container {
      max-width: 670px;
      margin: 38px auto;
      background: #fff;
      box-shadow: 0 4px 24px rgba(0,0,0,0.08);
      padding: 30px 32px;
      border-radius: 14px;
    }
    h1 {
      text-align: center;
      color: #1464c4;
      margin-bottom: 10px;
    }
    h2 {
      color: #346078;
      margin-bottom: 8px;
      margin-top: 22px;
    }
    .section {
      background: #f7fbfc;
      border: 1px solid #cde7f6;
```

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border-radius: 8px;
margin-bottom: 27px;
padding: 18px 14px;
}
input[type="text"] {
width: 100%;
padding: 9px;
margin-top: 7px;
border-radius: 5px;
border: 1px solid #b3c6e0;
font-size: 1em;
}
button {
background-color: #1464c4;
color: #fff;
border: none;
padding: 9px 18px;
margin: 10px 6px 0px 0px;
border-radius: 5px;
font-weight: 600;
cursor: pointer;
transition: background 0.2s;
}
button:hover { background: #345479; }
.reset-btn { background-color: #778899; }
.reset-btn:hover { background-color: #344050; }
.output {
margin-top: 8px;
font-weight: 500;
color: #15a735;
background: #eafbe7;
border-radius: 4px;
padding: 6px 10px;
}
.error {
margin-top: 8px;
font-weight: 500;
color: #e24863;
background: #f9dade;
border-radius: 4px;
padding: 6px 10px;
```

```

    }
    @media(max-width:700px) {
        .container { padding: 9px; }
    }
</style>
</head>
<body>
<div class="container">
    <h1>JavaScript</h1>
    <div style="text-align:center; margin-bottom:22px;">
        <p>
            <strong>Experiment 3: String operations</strong><br>
            <strong>Soumitra Kode &bullet; Roll : 42134 &bullet; BE-
06-
P6</strong>
        </p>
    </div>
    <!-- Reverse String Section -->
    <div class="section" id="reverseSection">
        <h2>1. Reverse String</h2>
        <input type="text" id="reverseInput" placeholder="Enter a string to reverse">
        <button onclick="reverseString()">Reverse</button>
        <button onclick="resetReverse()" class="reset-btn">Reset</button>
        <div id="reverseOutput" class="output"></div>
        <div id="reverseError" class="error"></div>
    </div>
    <!-- Replace Text Section -->
    <div class="section" id="replaceSection">
        <h2>2. Replace Text</h2>
        <input type="text" id="replaceInput" placeholder="Original string">
        <input type="text" id="replaceFrom" placeholder="Text to find">
        <input type="text" id="replaceTo" placeholder="Replace with">
        <button onclick="replaceCharacters()">Replace All</button>
        <button onclick="resetReplace()" class="reset-btn">Reset</button>
        <div id="replaceOutput" class="output"></div>
        <div id="replaceError" class="error"></div>
    </div>
    <!-- Palindrome Section -->
    <div class="section" id="palindromeSection">
        <h2>3. Check Palindrome</h2>
        <input type="text" id="palindromeInput" placeholder="Enter string to check">

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    <button onclick="checkPalindrome()">Check</button>
    <button onclick="resetPalindrome()" class="reset-btn">Reset</button>
    <div id="palindromeOutput" class="output"></div>
    <div id="palindromeError" class="error"></div>
  </div>
</div>
<script>
// Utility function to clear output and error
function clearOutput(sectionId) {
  document.getElementById(sectionId + 'Output').innerText = "";
  document.getElementById(sectionId + 'Error').innerText = "";
}
// 1. Reverse String Function
function reverseString() {
  clearOutput('reverse');
  const input = document.getElementById('reverseInput').value.trim();
  if (!input) {
    document.getElementById('reverseError').innerText = 'Please enter a valid string.';
    return;
  }
  const reversed = input.split('').reverse().join('');
  document.getElementById('reverseOutput').innerText = `Reversed String: ${reversed}`;
}
function resetReverse() {
  document.getElementById('reverseInput').value = "";
  clearOutput('reverse');
}
// 2. Replace Text Function
function replaceCharacters() {
  clearOutput('replace');
  const input = document.getElementById('replaceInput').value;
  const from = document.getElementById('replaceFrom').value;
  const to = document.getElementById('replaceTo').value;
  if (!input.trim()) {
    document.getElementById('replaceError').innerText = 'Original string cannot be empty.';
    return;
  }
  if (!from) {
    document.getElementById('replaceError').innerText = 'Text to find cannot be empty.';
    return;
  }
}

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    const replaced = input.replaceAll(from, to);
    document.getElementById('replaceOutput').innerText = `Result: ${replaced}`;
  }
  function resetReplace() {
    document.getElementById('replaceInput').value = "";
    document.getElementById('replaceFrom').value = "";
    document.getElementById('replaceTo').value = "";
    clearOutput('replace');
  }
  // 3. Palindrome Check Function
  function checkPalindrome() {
    clearOutput('palindrome');
    const input = document.getElementById('palindromeInput').value.trim();
    if (!input) {
      document.getElementById('palindromeError').innerText = 'Please enter a valid string.';
      return;
    }
    const clean = input.toLowerCase().replace(/[^a-z0-9]/g, "");
    const isPalindrome = clean === clean.split("").reverse().join("");
    document.getElementById('palindromeOutput').innerText = isPalindrome
      ? `${input} is a palindrome.`
      : `${input} is not a palindrome.`;
  }
  function resetPalindrome() {
    document.getElementById('palindromeInput').value = "";
    clearOutput('palindrome');
  }
}
</script>
</body>
</html>

```

Output :

A. Initial Web Page Layout –

JavaScript

Experiment 3: String operations
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1. Reverse String

ReverseReset

2. Replace Text

Replace AllReset

3. Check Palindrome

CheckReset

B. Web Page after performing string operations –

JavaScript

Experiment 3: String operations
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1. Reverse String

Soumitra

ReverseReset

Reversed String: artimuoS

2. Replace Text

Pune Institute Of Computer Technology

o

z

Replace AllReset

Result: Pune Institute Of Czmputer Technzlzgy

3. Check Palindrome

refer

CheckReset

"refer" is a palindrome.