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Subject : Javascript	Date :

Experiment 3: Perform following operations on a given string, i) Reverse string ii) Replace characters of a string iii) String is Palindrome.

CODE:

1. HTML

```
<!DOCTYPE html>
<html>
<script src="Expt_3.js"></script>
<center>
  <h1>String Operations</h1>
</center>
<body>
  <center>
    <!-- Reversal -->
    <h3>String Reversal</h3>
    Enter String : <input type="string" id="origStr1"></inputtype>
    <br><br>
    <button onclick="reverse()">Reverse String</button>
    <br><br>
    <p>Reversed String :</p>
    <p id="output1"></p>
    <hr>

    <!-- Character Replacement -->
    <h3>Character Replacement</h3>
    Enter String : <input type="string" id="origStr3"></inputtype>
    <br><br>
    Charcter To Replace : <input type="string" id="toReplace"></inputtype>
    <br><br>
    Character To Replace With : <input type="string" id="replaceWith"></inputtype>
    <br><br>
    <button onclick="replaceChar()">Replace</button>
    <br><br>
    <p>Replaced String :</p>
    <p id="output3"></p>
    <hr>

    <!-- Palindrome -->
    <h3>Palindrome Check</h3>
    Enter String : <input type="string" id="origStr2"></inputtype>
    <br><br>
    <button onclick="palindrome()">Check Palindrome</button>
    <br><br>
    <p id="output2"></p>
    <hr>

  </center>
</body>
</html>
```

2. JS

```
function reverse() {  
    var input1 = document.getElementById("origStr1").value;  
    var reversed1 = input1.split("").reverse().join("");  
    document.getElementById("output1").innerHTML = reversed1;  
}
```

```
function palindrome() {  
    var input2 = document.getElementById("origStr2").value;  
    var reversed2 = input2.split("").reverse().join("");  
    var palindrome;  
    if (reversed2 == input2) {  
        palindrome = "String Is Palindrome";  
    }  
    else if (reversed2 != input2) {  
        palindrome = "String Is Not Palindrome";  
    }  
    document.getElementById("output2").innerHTML = palindrome;  
}
```

```
function replaceChar() {  
    var input3 = document.getElementById("origStr3").value;  
    var toReplace = document.getElementById("toReplace").value;  
    var withReplace = document.getElementById("replaceWith").value;  
    var replaced = input3.replace(toReplace, withReplace);  
    document.getElementById("output3").innerHTML = replaced;  
}
```