<!DOCTYPE html>

<html>

<head>

<title> program to reverse,replace a character of a string and check whether entered string is Palindrome in JavaScript </title>

<style>

h1 {

text-align: center;

padding: 100px;

background-color: blue;

color: white;

}

.palin {

margin: 30px;

width: 80%;

border: 3px solid rgb(138, 9, 9);

border-radius: 5px;

padding: 50px;

}

#pa2 {

width: 50%;

border: 3px solid orangered;

border-radius: 5px;

padding: 5px;

}

#ra {

width: 50%;

border: 3px solid orangered;

border-radius: 5px;

padding: 5px;

}

#rc {

width: 50%;

border: 3px solid orangered;

border-radius: 5px;

padding: 5px;

}

</style>

</head>

<body>

<h1> Program to reverse,replace a character of a string and check whether entered string is Palindrome in JavaScript </h1>

<div class="palin">

<label> Enter any string or number : </label>

<input id= "pa"> <br> <br>

<label> Reverse of a string : </label>

<input id= "ra"> <br> <br>

<label> Replace charcter r with b : </label>

<input id= "rc"> <br> <br>

<label> Resultant string : </label>

<input id = "pa2" > </b> <br>

<button onclick= "reverseString();replacestring();palindrome();" >Submit</button> <br>

</div>

<script type = "text/javascript">

function reverseString()

{

var a= document.getElementById("pa").value;

var newString = "";

for (let i = a.length - 1; i >= 0; i--)

{

newString += a[i];

}

document.getElementById("ra"). value = newString + " ";

}

function replacestring()

{

var a= document.getElementById("pa").value;

const regex = /r/g;

var newText1 = a.replace(regex, 'b');

document.getElementById("rc"). value = newText1 + " ";

}

function palindrome()

{

var a= document.getElementById("pa").value;

// get the total length of the words

var b="";

// Use for loop to divide the words into 2 half

for (let i = a.length-1; i >=0; i--)

{

b+=a[i];

}

// validate the first and last characters are same

if (a==b)

document.getElementById("pa2"). value = b + " is a Palindrome String ";

else

document.getElementById("pa2"). value = b + " is not a Palindrome String";

}

</script>

</body>

</html>