

**Output:**

The screenshot shows a web browser window with the address bar displaying `File /home/kshitij/javascript/Exp3/index.html`. The page title is "String Manipulation". The interface features three main sections:

- Reverse String:** Includes an input field with "PICT Pune", a "Reverse" button, and a table with "Original" and "Modified" columns.
- Replace Part of String:** Includes an input field with "PICT Pune", a "Char to replace:" field, a "With:" field, a "Replace" button, and a table with "Original" and "Modified" columns.
- Check if Palindrome:** Includes an input field with "racecar", a "Palindrome Check" button, and a table with "Original" and "Is Palindrome?" columns.

At the bottom left, there is a button labeled "All Functions (Check Console)".

**Fig. Main Website**

This block contains two side-by-side close-up views of the website's functionality:

**Reverse String:** Shows the input field containing "PICT Pune", the "Reverse" button, and the resulting table:

Original	Modified
PICT Pune	enuP TCIP

**Replace Part of String:** Shows the input field containing "Leetcode", the "Char to replace:" field containing "d", the "With:" field containing "t", the "Replace" button, and the resulting table:

Original	Modified
Leetcode	Leetcote

**Fig. Reverse String****Fig. Replace part**

### Check if Palindrome

Enter string:

Palindrome Check

Original	Is Palindrome?
racecar	True

### Check if Palindrome

Enter string:

Palindrome Check

Original	Is Palindrome?
not_palindrome	False

Fig. Check If Palindrome (true)

Fig. Check if palindrome (false)

**Code:****1. HTML:**

```

<!DOCTYPE html>
<html lang="en">
<head>
<script type="text/javascript" src="strings.js"></script>
<link rel="stylesheet" href="style.css">

    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>String Manipulation</h1>

    <div class="all">
        <!-- Reverse Section -->
        <div class="operation">
            <h2>Reverse String</h2>
            Enter string:
            <input id="string_rev" type="text" value="PICT Pune" />
            <button onclick="reverse()">Reverse</button>

```

```
<table>
  <thead>
    <tr>
      <th>Original</th>
      <th>Modified</th>
    </tr>
  </thead>
  <tr>
    <th id="original_rev"></th>
    <th id="reversed_rev"></th>
  </tr>
</table>
</div>

<!-- Replace Section -->
<div class="operation">
  <h2>Replace Part of String</h2>
  Enter string:
  <input id="string_rep" type="text" value="PICT Pune" />
  <br />
  Char to replace: <input id="to_replace" /> With:
  <input id="with_replace" />
  <button onclick="replace()">Replace</button>

  <table>
    <thead>
      <tr>
        <th>Original</th>
        <th>Modified</th>
      </tr>
    </thead>
    <tr>
      <th id="original_rep"></th>
      <th id="replaced_rep"></th>
```

```

        </tr>
    </table>
</div>

<!-- Palindrome Section -->
<div class="operation">
    <h2>Check if Palindrome</h2>
    Enter string: <input id="string_pal" type="text" value="racecar" />
    <button onclick="checkPalindrome()">Palindrome Check</button>

    <table>
        <thead>
            <tr>
                <th>Original</th>
                <th>Is Palindrome?</th>
            </tr>
        </thead>
        <tr>
            <th id="original_pal"></th>
            <th id="palindrome"></th>
        </tr>
    </table>
</div>
</div>

Enter string:
<input id="string" type="text" value="PICT Pune" />
<button onclick="allFunctions()">All Functions (Check Console)</button>
</body>

```

## 2. Javascript:

```

// reverse
function reverse() {
    let s = document.getElementById("string_rev").value;

    // Reverse

```

### Experiment 3

Roll no: 42405

Batch: Q6

```
    let k = s.split("").reverse().join("");

    document.getElementById("original_rev").innerHTML = s;
    document.getElementById("reversed_rev").innerHTML = k;
}

// replace
function replace() {
    let s = document.getElementById("string_rep").value;

    let a = document.getElementById("to_replace").value;
    let b = document.getElementById("with_replace").value;

    let ans = s.replace(a, b);

    document.getElementById("original_rep").innerHTML = s;
    document.getElementById("replaced_rep").innerHTML = ans;
}

// palindrome (or not)
function checkPalindrome() {
    let s = document.getElementById("string_pal").value;

    // Reverse
    let rev = s.split("").reverse().join("");
    let ans = rev === s ? "True" : "False";

    document.getElementById("original_pal").innerHTML = s;
    document.getElementById("palindrome").innerHTML = ans;
}
```