Output:

Code:

1. HTML:

```
<!DOCTYPE html>

<html lang="en">
```

```html
<head>

<script type="text/javascript" src="string_comp.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>


<div class="shape-box">

    <div class="form-section">

      <h1>⬚ String Functions Playground</h1>

      <label for="string" class="area-label">Enter a String:</label>

      <input type="text" id="string" placeholder="Type something...">

      <button onclick="runAll()">Run Functions</button>

    </div>


  </div>


  <div class="all">

    <!-- Left Column -->

    <div class="operation">

      <h2>Not in Place Methods</h2>

      <table id="notInPlaceTable">

        <thead>

          <tr>

            <th>Operation</th>
```
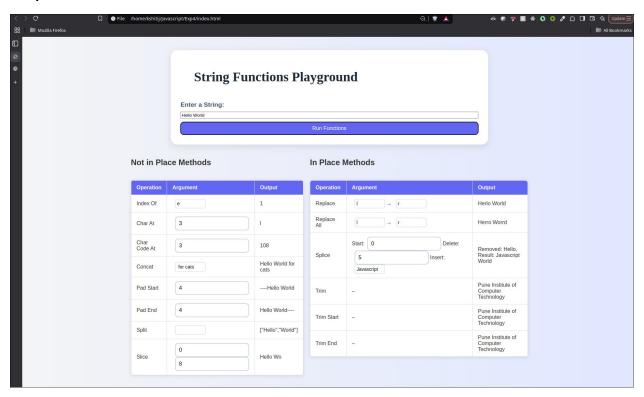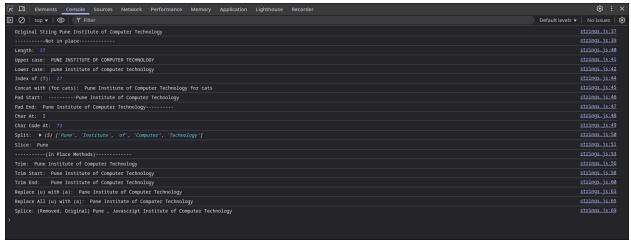
```
            <th>Argument</th>

            <th>Output</th>

        </tr>

    </thead>

    <tbody>

        <tr><td>Index Of</td><td><input id="arg-indexof" class="arg-input"
value="T"></td><td id="out-indexof"></td></tr>

        <tr><td>Char At</td><td><input id="arg-charat" type="number"
class="arg-input" value="5"></td><td id="out-charat"></td></tr>

        <tr><td>Char Code At</td><td><input id="arg-charcodeat" type="number"
class="arg-input" value="5"></td><td id="out-charcodeat"></td></tr>

        <tr><td>Concat</td><td><input id="arg-concat" class="arg-input"
value=" for cats"></td><td id="out-concat"></td></tr>

        <tr><td>Pad Start</td><td><input id="arg-padstart" type="number"
class="arg-input" value="10"></td><td id="out-padstart"></td></tr>

        <tr><td>Pad End</td><td><input id="arg-padend" type="number"
class="arg-input" value="10"></td><td id="out-padend"></td></tr>

        <tr><td>Split</td><td><input id="arg-split" class="arg-input" value="
"></td><td id="out-split"></td></tr>

        <tr><td>Slice</td>

          <td>

            <input id="arg-slice-start" type="number" class="arg-input"
value="0">

            <input id="arg-slice-end" type="number" class="arg-input"
value="4">

          </td>

          <td id="out-slice"></td>

        </tr>

    </tbody>

  </table>

 </div>
```

```html
<!-- Right Column -->

<div class="operation">

  <h2>In Place Methods</h2>

  <table id="inPlaceTable">

    <thead>

      <tr>

        <th>Operation</th>

        <th>Argument</th>

        <th>Output</th>

      </tr>

    </thead>

    <tbody>

      <tr><td>Replace</td><td><input id="arg-replace1" class="arg-input"
value="u"> → <input id="arg-replace2" class="arg-input" value="a"></td><td
id="out-replace"></td></tr>

      <tr><td>Replace All</td><td><input id="arg-replaceall1" class="arg-
input" value="u"> → <input id="arg-replaceall2" class="arg-input"
value="a"></td><td id="out-replaceall"></td></tr>

      <tr><td>Splice</td>

        <td>

          Start:<input id="arg-splice-start" type="number" class="arg-input"
value="0">

          Delete:<input id="arg-splice-del" type="number" class="arg-input"
value="4">

          Insert:<input id="arg-splice-insert" class="arg-input"
value="Javascript">

        </td>

        <td id="out-splice"></td>

      </tr>

      <tr><td>Trim</td><td>—</td><td id="out-trim"></td></tr>

      <tr><td>Trim Start</td><td>—</td><td id="out-trimstart"></td></tr>
```

```
      <tr><td>Trim End</td><td>–</td><td id="out-trimend"></td></tr>

    </tbody>

  </table>

</div>

</div>


</body>
```

2. **Javascript:**

```
function runAll() {

    const s = document.getElementById("string").value;

    if (!s) {

      alert("Please enter a string first!");

      return;

    }


    // --- Not in Place ---

    document.getElementById("out-indexof").textContent =
s.indexOf(document.getElementById("arg-indexof").value);

    document.getElementById("out-charat").textContent =
s.charAt(parseInt(document.getElementById("arg-charat").value));

    document.getElementById("out-charcodeat").textContent =
s.charCodeAt(parseInt(document.getElementById("arg-charcodeat").value));

    document.getElementById("out-concat").textContent =
s.concat(document.getElementById("arg-concat").value);

    document.getElementById("out-padstart").textContent = s.padStart(s.length
+ parseInt(document.getElementById("arg-padstart").value), "-");

    document.getElementById("out-padend").textContent = s.padEnd(s.length +
parseInt(document.getElementById("arg-padend").value), "-");

    document.getElementById("out-split").textContent =
JSON.stringify(s.split(document.getElementById("arg-split").value));

    document.getElementById("out-slice").textContent = s.slice(
```

```
        parseInt(document.getElementById("arg-slice-start").value),

        parseInt(document.getElementById("arg-slice-end").value)

      );


      // --- In Place ---

      document.getElementById("out-replace").textContent = s.replace(

        document.getElementById("arg-replace1").value,

        document.getElementById("arg-replace2").value

      );


      document.getElementById("out-replaceall").textContent = s.replaceAll(

        document.getElementById("arg-replaceall1").value,

        document.getElementById("arg-replaceall2").value

      );


      let arr = s.split("");

      let removed = arr.splice(

        parseInt(document.getElementById("arg-splice-start").value),

        parseInt(document.getElementById("arg-splice-del").value),

        document.getElementById("arg-splice-insert").value

      ).join("");

      document.getElementById("out-splice").textContent = `Removed: ${removed},
Result: ${arr.join("")}`;


      let orig = "  Pune Institute of Computer Technology  ";

      document.getElementById("out-trim").textContent = orig.trim();

      document.getElementById("out-trimstart").textContent = orig.trimStart();

      document.getElementById("out-trimend").textContent = orig.trimEnd();

    }
```