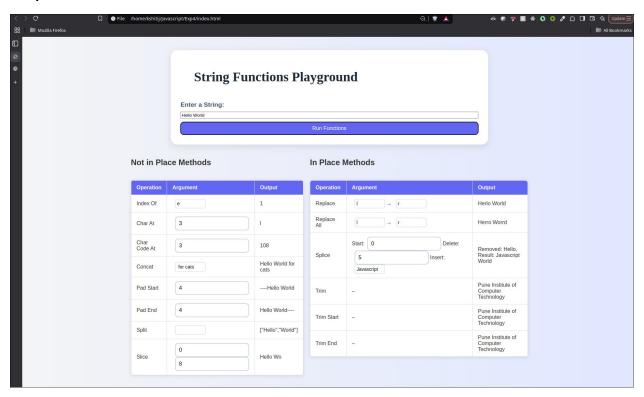
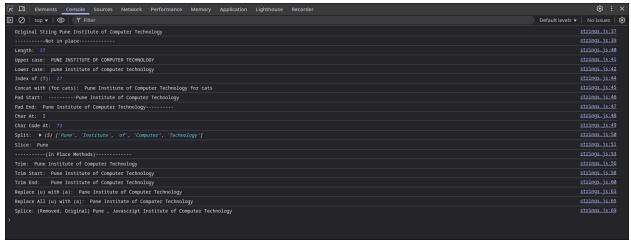
Experiment 4
Roll no: 42405
Batch: Q6

## **Output:**





## Code:

## 1. HTML:

<!DOCTYPE html>

<html lang="en">

<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 </div> </div> <div class="all"> <!-- Left Column --> <div class="operation"> <h2>Not in Place Methods</h2> <thead> Operation

```
Argument
       Output
      </thead>
    Index Ofinput id="arg-indexof" class="arg-input"
value="T">
      Char At<id>input id="arg-charat" type="number"
class="arg-input" value="5">
      Char Code At<input id="arg-charcodeat" type="number"
class="arg-input" value="5">
      Concatinput id="arg-concat" class="arg-input"
value=" for cats">
      Pad Startinput id="arg-padstart" type="number"
class="arg-input" value="10">
      Pad Endinput id="arg-padend" type="number"
class="arg-input" value="10">
      Split<input id="arg-split" class="arg-input" value="
">
      Slice
       <input id="arg-slice-start" type="number" class="arg-input"</pre>
value="0">
        <input id="arg-slice-end" type="number" class="arg-input"</pre>
value="4">
       </div>
```

```
<!-- Right Column -->
  <div class="operation">
    <h2>In Place Methods</h2>
    <thead>
      Operation
        Argument
        Output
      </thead>
     Replace<input id="arg-replace1" class="arg-input"
value="u"> → <input id="arg-replace2" class="arg-input" value="a"><td
id="out-replace">
      Replace All<input id="arg-replaceall1" class="arg-
input" value="u"> → <input id="arg-replaceall2" class="arg-input"</pre>
value="a">
      Splice
        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"</pre>
value="Javascript">
        Trim-
      Trim Start-
```

Trim End-</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(

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```
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();
    }
```