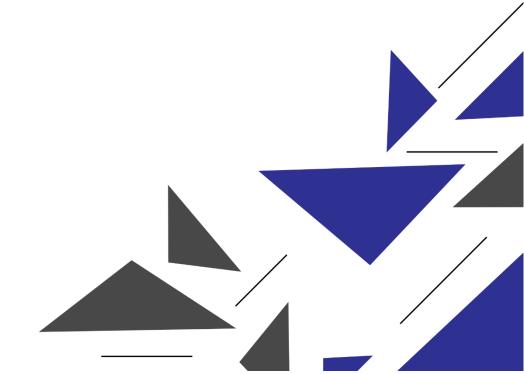


# **CSI3023**

Advanced Server-Side Programming

Winter Semester 2023 - '24

Digital Assignment – 3



SARAGA S 20MIC0081

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Text Processing and Armstrong Number Checker</title>
    <!-- Bootstrap CSS -->
    <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">
    <style>
        body {
            padding-top: 2rem;
            background-color: #f8f9fa;
        .container {
            max-width: 600px;
        .card {
            box-shadow: 0 0.15rem 1.75rem 0 rgba(58, 59, 69, 0.15);
        .card-header {
            background-color: #28a745; /* Changed color to green */
            color: white;
        }
        .form-group {
            margin-bottom: 1rem;
        }
        .btn-primary {
            background-color: #28a745; /* Changed color to green */
            border-color: #28a745; /* Changed border color to green */
        .btn-primary:hover {
            background-color: #218838; /* Darker green on hover */
            border-color: #218838; /* Darker green border on hover */
        }
        .result {
            margin-top: 1rem;
            font-size: 1.25rem;
            font-weight: bold; /* Bold result text */
        .nav-tabs .nav-link {
            color: white;
            background-color: #007bff;
        .nav-tabs .nav-link.active {
            color: #000;
            background-color: #ffffff;
    </style>
<body>
   <div class="container">
```

```
<div class="card">
           <div class="card-header">
               <a class="nav-link active" id="text-tab" data-toggle="tab"</pre>
href="#text" role="tab" aria-controls="text" aria-selected="true">Text
Processing</a>
                   <a class="nav-link" id="armstrong-tab" data-toggle="tab"</pre>
href="#armstrong" role="tab" aria-controls="armstrong" aria-
selected="false">Armstrong Number Checker</a>
                   </div>
           <div class="card-body">
               <div class="tab-content" id="myTabContent">
                   <div class="tab-pane fade show active" id="text" role="tabpanel"</pre>
aria-labelledby="text-tab">
                       <form id="textForm">
                           <div class="form-group">
                               <label for="inputText">Enter text:</label>
                               <input type="text" class="form-control"</pre>
id="inputText" name="inputText" required>
                           </div>
                           <div class="form-group">
                               <label for="deleteChar">Delete character:</label>
                               <input type="text" class="form-control"</pre>
id="deleteChar" name="deleteChar" maxlength="1">
                           </div>
                           <div class="form-group">
                               <label for="joinText">Join text:</label>
                               <input type="text" class="form-control"</pre>
id="joinText" name="joinText">
                           </div>
                           <div class="form-group">
                               <label for="replaceChar">Replace character
(old,new):</label>
                               <input type="text" class="form-control"</pre>
id="replaceChar" name="replaceChar" placeholder="old,new">
                           </div>
                           <div class="form-check">
                               <input type="checkbox" class="form-check-input"</pre>
id="toUppercase" name="toUppercase">
                               <label class="form-check-label"</pre>
for="toUppercase">Convert to UPPERCASE</label> <!-- Changed to UPPERCASE -->
                           <div class="form-check">
                               <input type="checkbox" class="form-check-input"</pre>
id="toLowercase" name="toLowercase">
                               <label class="form-check-label"</pre>
for="toLowercase">Convert to lowercase</label>
                           </div>
```

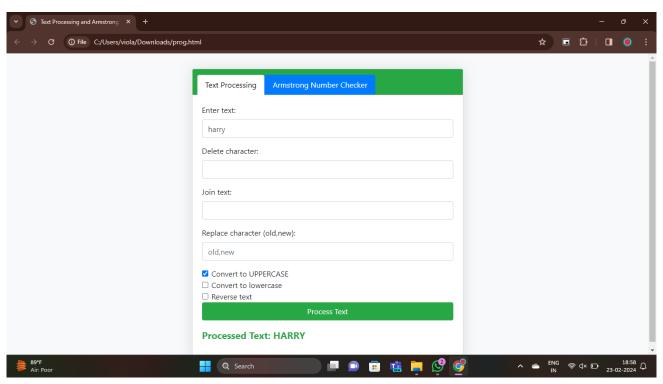
```
<div class="form-check">
                                 <input type="checkbox" class="form-check-input"</pre>
id="reverse" name="reverse">
                                 <label class="form-check-label"</pre>
for="reverse">Reverse text</label>
                             <button type="button" class="btn btn-primary btn-block"</pre>
onclick="processText()">Process Text</button>
                         </form>
                         <div id="textResult" class="result"></div>
                     </div>
                     <div class="tab-pane fade" id="armstrong" role="tabpanel" aria-</pre>
labelledby="armstrong-tab">
                         <form id="armstrongForm">
                             <div class="form-group">
                                 <label for="number">Enter a number:</label>
                                 <input type="number" class="form-control"</pre>
id="number" name="number" required>
                             </div>
                             <button type="button" class="btn btn-primary btn-block"</pre>
onclick="checkArmstrong()">Check Armstrong Number</button>
                         </form>
                         <div id="armstrongResult" class="result"></div>
                     </div>
                </div>
            </div>
        </div>
    </div>
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"></script>
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></sc</pre>
ript>
src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></scrip</pre>
    <script>
        function processText() {
            var inputText = document.getElementById('inputText').value;
            var deleteChar = document.getElementById('deleteChar').value;
            var joinText = document.getElementById('joinText').value;
            var replaceChar = document.getElementById('replaceChar').value;
            var toUppercase = document.getElementById('toUppercase').checked;
            var toLowercase = document.getElementById('toLowercase').checked;
            var reverse = document.getElementById('reverse').checked;
            if (deleteChar) {
                inputText = inputText.replaceAll(deleteChar, '');
            if (joinText) {
```

```
inputText += joinText;
           if (replaceChar) {
               var replacements = replaceChar.split(',');
               inputText = inputText.replaceAll(replacements[0], replacements[1]);
           if (toUppercase) {
               inputText = inputText.toUpperCase();
           if (toLowercase) {
               inputText = inputText.toLowerCase();
           if (reverse) {
               inputText = inputText.split('').reverse().join('');
           document.getElementById('textResult').innerHTML = "
success'>Processed Text: " + inputText + "";
function checkArmstrong() {
   var number = document.getElementById('number').value;
   var originalNumber = number;
   var sum = 0;
   var numberOfDigits = String(number).length;
   while (number > 0) {
       var digit = number % 10;
       sum += Math.pow(digit, numberOfDigits);
       number = Math.floor(number / 10);
   if (sum == originalNumber) {
       document.getElementById('armstrongResult').innerHTML = "
success'>" + originalNumber + " is an Armstrong number.";
   } else {
       document.getElementById('armstrongResult').innerHTML = "
danger'>" + originalNumber + " is not an Armstrong number.";
   </script>
</body>
</html>
```

#### Screenshots -

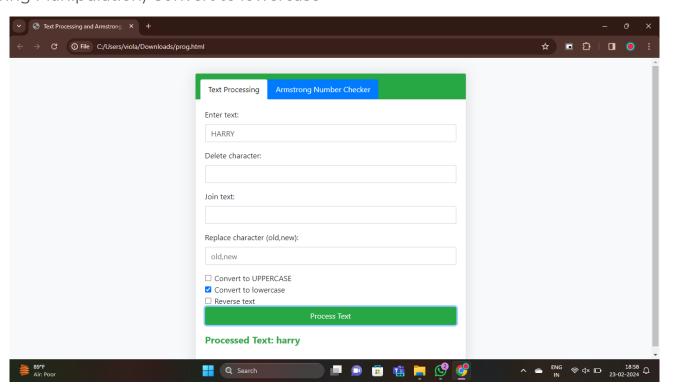
### Case 1 -

(String Manipulation) Convert to UPPERCASE -



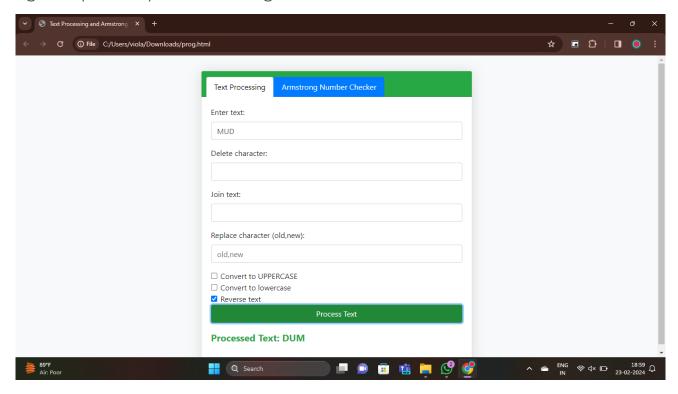
### Case 2 -

(String Manipulation) Convert to lowercase -



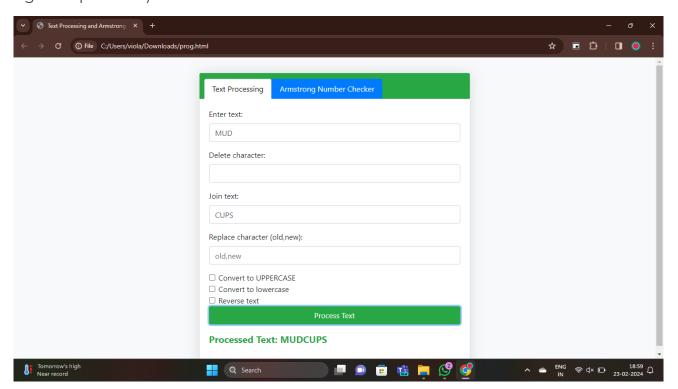
#### Case 3 -

(String Manipulation) Reverse String -



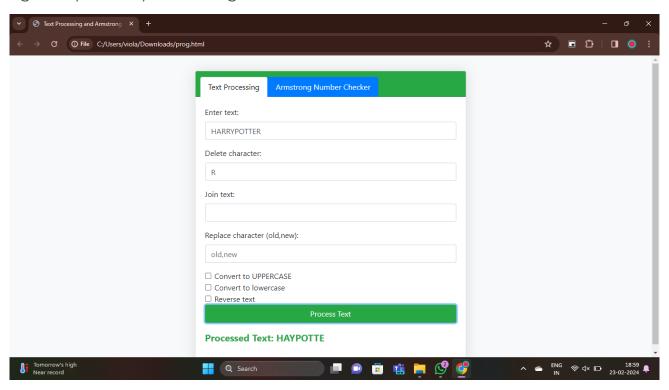
## Case 4 -

(String Manipulation) Delete Character -



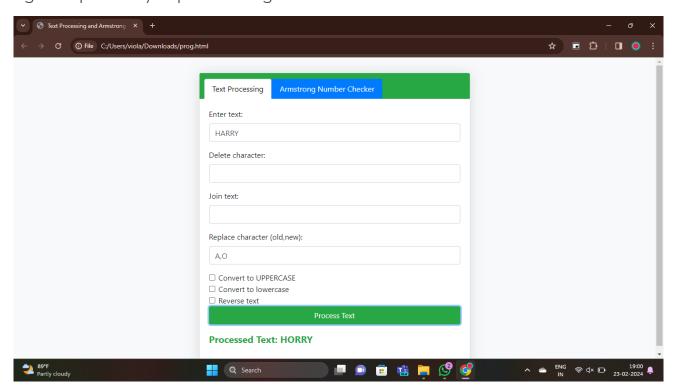
## Case 5 -

(String Manipulation) Join String –



## Case 6 -

(String Manipulation) Replace String -



## **Case 7 -**

## Armstrong Number -

