# **Assignment: Working with Strings in Arrays**

#### Instructions:

You are given an array of strings, where each string represents a word or a phrase. Use the provided string functions and array methods (filter() and map()) to complete the tasks below. Write the solutions in JavaScript.

#### **Problem Statement**

## 1. Filter Long Strings

Use the filter() method to create a new array called longStrings that contains only strings with a length greater than 5 characters.

### 2. Convert to Uppercase

Use the map() method to create a new array called upperCaseStrings, where each string in the array is converted to uppercase.

## 3. Find Strings Containing a Specific Character

Use the filter() method to create an array called contains A that contains only the strings that have the letter "a" (case insensitive).

### 4. Concatenate Strings

Use the map() method to append the text " - Processed" to each string in the original array and store it in a new array called processedStrings.

#### Sample Input:

```
const strings = ["apple", "banana", "cherry", "date", "elderberry", "fig",
"grape"];
```

#### **Expected Outputs:**

#### 1. longStrings:

```
Example: ["banana", "cherry", "elderberry"]
```

# 2. upperCaseStrings:

```
Example: ["APPLE", "BANANA", "CHERRY", "DATE", "ELDERBERRY", "FIG", "GRAPE"]
```

### 3. containsA:

```
Example: ["apple", "banana", "grape"]
```

#### 4. processedStrings:

```
Example: ["apple - Processed", "banana - Processed", "cherry - Processed", ...]
```

### **Submission Guidelines:**

- Ensure all the tasks are implemented in JavaScript.
- Test your code for the given input and verify the outputs.
- Share your code snippets and results.

This assignment will help you practice using string functions along with array methods like filter() and map() to manipulate strings effectively.