# JavaScript Comprehensive Test

Please answer the following question using the JavaScript concepts you've learned. Make sure to use variables, constants, if-else statements, nested if-else statements, for loops, for-in and for-of loops, functions, and string methods in your solution.

## Question:

Create a function called `processData` that takes an array of strings as input. This function should:  
1. Declare a constant and a variable inside the function.  
2. Use a for loop to iterate over each string in the array.  
3. Within the for loop, use an if-else statement to check if the current string includes the letter 'a'.  
4. If it does, replace all occurrences of 'a' with '@'. If it doesn't, convert the string to uppercase.  
5. Use a nested if-else statement to check the length of the modified string. If the length is greater than 5, slice the string to only include the first 5 characters.  
6. Use a for-in loop to iterate over the characters of the final modified string and log the character and its index to the console.  
7. Use a for-of loop to log each character of the final modified string to the console.  
8. Return the array of modified strings.  
  
Test the function with an array of at least 5 different strings and include the output.  
  
Example:  
Input: ['apple', 'banana', 'cherry', 'date', 'fig']  
Output: ['@ppl', 'b@n@n', 'CHERR', 'D@TE', 'FIG']

## Submission Instructions:

Please send the JavaScript code and a screenshot of the output to airoskills@gmail.com. Include your name in the email title and your WhatsApp number from where you joined the WhatsApp group.

## Submission Deadline:

12 June 2024, 11:59 PM