LAB EXERCISE 8

Part 1: Arrays

- 1. Write an **arrow function** findDetails(*array*, *value*) that takes an array and a value as input and returns an object with the following properties:
 - a. firstIndex: The first occurrence of the value in the array
 - b. lastIndex: The last occurrence of the value in the array
 - c. exists: A boolean indicating whether the value exists in the array
- Write a function appearsMultipleTimes(arr, value) that returns true if the given value appears more than once in the array, using both indexOf() and lastIndexOf(). Return false if it appears once or not at all.
- Write a function findAllPositions(arr, value) that returns an array of all the indices where value appears in arr using indexOf() in a loop.
 - a. Example, const arr = [5, 2, 3, 2, 5, 2]; console.log(findAllPositions(arr, 2));Should have the output, [1, 3, 5]
- 4. Write a JavaScript function that filters out senior citizens from an array of customer objects. A customer is considered a senior citizen if their age is 60 or above.

- 5. Write a JavaScript function that transforms the *above* array of customer objects by adding a full_name property to each customer. The full_name should be generated based on the following conditions:
 - a. If the customer is male, the title should be "Mr."
 - b. If the customer is female, the title should be "Ms."
 - c. The full name should be a combination of the title, first name (f_name), and last name (l_name).
- Write a JavaScript function that takes an array of names and returns a new array containing the lengths of each name.