# JavaScript Lab 2 (Combined Parts 1 & 2)

## Part 1

### 1. Array Operations

Given:

Define an array of numbers as: numbers = [3, 1, 2, 4, 3, 5, 1];

Perform the following:

- Remove duplicate items from the array.

- Sort them in ascending order.

- Filter numbers larger than 50:

a. Using a user-defined function.

b. Using array built-in filter() function.

- Display the maximum and minimum numbers:

a. Using a user-defined function.

b. Using ES6 Math functions (BONUS).

### 2. Sum and Product of an Array using eval

Write JavaScript functions to compute the sum and product of an array of integers using eval:

- a. Function header: function sumAll(numbersArray)

\*Input is an array. Example call:\* sumAll([3,1,4,5,2]);

- b. Function header: function sumAll()

\*Use eval and arguments array-like object.\*

### 3. Get Month Name from Date

Write a JavaScript function to get the month name from a particular date.

### 4. Generate Unique Random Array

Write a JavaScript function that returns a random array of numbers between 1 and 10, with:

- Array length = 8

- No repeated values

## Part 2

### String Input and Validation

- Receive a string from the user.

- Perform all possible validations on the input.

- Then, write code to calculate the result of the input (if it's a valid expression).