**Day 8 Lab Assignments**

1. Implement the following classes (Add classes’ variables and method according to your logic):
   1. Person class with need variables and methods.
   2. Employee class that inherits from Person class and add need variables and methods.
   3. Student class that inherits from Person class and add need variables and methods.
   4. Try the following:
      1. In Employee class add static method: displayHTRules(), that prints the company’s HR rules.
         * What’s the difference between static method and member method?
         * Add static variable that counts the number of Employee object.
      2. Try private members, getters and setters. Why Getters and setters are better than public accessible variables.
      3. Can we handle abstract class in JS? Try to make person class can’t be instanced.
2. showSalary(), increaseSalalry(), and add it to the employee class.
   1. What’s an Interface? What’s the difference between interface and abstract class? Is it allowed in JavaScript?
3. Make a literal object “ScientificDepartment” that has properties: name, Location, Address which is composed from: City, Street, zip code, and add display function that prints all content of the object.
   1. Why do we need literal objects? And how does it differs than normal classes?
4. Using rest parameter and spread operator return max value from any array note: array length is not fixed return min and max value and display each of them separately after function calling

Do all this using function

1. Study new array api methods then create the following methods and apply it on this array var fruits = ["apple", "strawberry", "banana", "orange", "mango"]

* test that every element in the given array is a string
* test that some of array elements starts with "a"
* generate new array filtered from the given array with only elements that starts with "b" or "s"
* use forEach to display all elements of the new array from previous

1. Make a set that holds countries names.
   1. return the numbers of repeated items in set ****

**Bonus:**

prefer this link for online reference

**https://developer.mozilla.org/en-US/docs/Web/JavaScript**

**some good books :***Eloquent JavaScript , you do not know javascript*

***More practice and more reading!***