**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. Overriding.
      4. Can we implement overloading is JS? Try to simulate it using function default parameters.
      5. Can we handle abstract class in JS? Try to make person class can’t be instanced.
      6. Can we handle sealed class in JS? Try to make student class can’t be inherited.
2. Make new class Course, and make the student class has an array from course objects.
3. 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?
4. 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?

**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!***