Lab Assignment 06
2021 – 2022 Spring, CMPE 114/211 Fundamentals of Programming II

Q1. File *Employee.java* contains a definition for a simple employee information class with methods to get promotion, get the position, get the salary and employee ID, and return a String representation.

Save this class to your directory and modify it as follows:
1. Overload the constructor as follows:
• public Employee (double salary, String position, String name, long ID) - initializes the position, name of employee, salary and employee ID
• public Employee (String position, String name) - initializes the position and name of employee as specified; sets salary to 0 and randomly generates the employee ID.
• public Employee (String name) - initializes the name of employee as specified; sets the initial position to "Employee" and salary to 0. Randomly generates the employee ID as well.

2. Overload the *getPromotion* method with one that also takes a double value which is the amount of salary increase

Complete in the below test program "*TestEmployee.java*" so that it will
 a. Prompt for and read the employee's name and create an employee object
 b. Prompt for and read the initial position for this employee and creates a new employee object
 c. Prompt for and read the employee ID and salary for the employee and create a new employee with this employee ID and salary
 d. Promote the employee to the "Senior Manager" and print new position
 e. Promote the employee to the "CEO" with $100 salary increase and print new position together with salary

```java
import java.util.Scanner;
public class TestEmployee
{
public static void main(String[] args)
{
        String name;
        String position;
        double salary;
        long ID;
        Employee emp;
        Scanner scan = new Scanner(System.in);

        System.out.println("Enter employee's name");

        // a. Read the employee's name and create emp

        System.out.println("Employee " + name + ":");
        System.out.println(emp);

        System.out.println("\nEnter initial position");

        //b. Read the initial position for the employee and create a new employee
```

```java
            System.out.println("Employee " + name + ":");
            System.out.println(emp);


            System.out.println("\nEnter employee ID and salary");
            //c. Prompt for and read the employee ID and salary for the employee and create a
            new employee with this ID and salary
            System.out.println("Employee for " + name + ":");
            System.out.println(emp);

            //d. Promote the employee to the "Senior Manager" and print new position
            System.out.print("\nThe employee got promoted to ");


            //e.  Promote the employee to the "CEO" with $100 salary increase and print new
            position together with salary
            System.out.print("\nThe employee got promoted to ");

            System.out.print("\nThe new salary is ");


    }
}
```

Sample Output:

Enter employee's name
John
Employee John:
Name: John
Position: Employee
ID #: 27072949
Salary: 0.0

Enter initial position
Manager
Employee John:
Name: John
Position: Manager
ID #: 1729084674
Salary: 0.0

Enter employee ID and salary
12345
500
Employee for John:
Name: John
Position: Manager
ID #: 12345
Salary: 500.0

The employee got promoted to Senior Manager

The employee got promoted to CEO
The new salary is 600.0