## Part A: A java class “Employee” Class is given below

public class Employee {

public static String company = “ISE”

public String name;

}

Implement a class “Employee” as follows.

* Add a private attribute “salary” as an integer, and a public attribute “id” as an integer.
* Create a detail constructor for this class.
* Create a no-argument constructor for the “Employee” class that set default initial values for name, ID, and salary to “nameless, 1, and 15000” respectively.
* Add a public mutator method “setSalary” to set value of this.salary. The method returns true if the operation is successful. Otherwise, it returns false when it fails (e.g. salary has to be a positive number)
* Add a public accessor method “getSalary” to return value of this.salary.
* Add “toString()” method to return all attributes of the object, except the private one.
* Create a copy constructor creates a clone an object being passed along as an input argument. (Note: clone values of all attributes including the private one.)
* Add a “hasHigherSalary(Employee anotherEmployee) to compare salary of this employee and another employee. The method will return true if the currently employee has higher salary, and return false otherwise.
* Add a “promote(int promotion)” method to increase salary of this employee. The increment will be equal to a value of input argument “promotion”.

## Part B: Use the “Employee” class as instruct below

Create a “MyCompany” class and implement a main method as follows.

* Create an “employee1” of type Employee using no-argument constructor.
* Create an “employee2” of type Employee using detailed constructor, and pass along arguments to set initial values of name, ID, and salary to “emp2”, 2, and “30,000” respectively.
* Print employee1 and employee2 on the screen. (based on toString() method)
* For the object “employee1”, set values of name, ID, and salary to “emp1”, 1, and “60,000” respectively.
* Use hasHigherSalary() to compare salary of employee1 and employee2 and then print on the screen which one has higher salary.
* Create an “employee3” as a clone of employee1 (Hint: Using a copy constructor)
* Promote employee3 by increase the salary by 50,000 baht
* Use hasHigherSalary() to compare salary of employee2 and employee3 and then print on the screen which one has higher salary.
* Print all employees on the screen. (based on toString() method)