COSC 61 – Assignment 5 - Due Date : Nov. 25th, 8:00 AM

Note: This assignment can be done in pairs.
Here are the tasks for this Assignment:

1. Recall from last Lab, that you have designed in UML, company software system. Implement all the classes in java. When you implement these classes, you do not have to worry about the methods for each class, rather for each class provide the definition for classes, some sample constructors and its data members.

2. Generate the Javadoc for all the classes.

3. Implement the Employee class in it’s full. Include some standard setter and getter methods for data members.

4. Create a test program. Here are the tasks for the test program
   a. Provide a recursive method – Employee[] getMaxSalaryOfEmployees(Employee[] employees). This method takes an array of Employee objects and calculates the highest paid employee(s) and returns an array of employees with highest salaries.
   b. Given an employee object, provide a recursive method which finds the chain of all supervisors for the Employee object - ArrayList<Employee> findAllSupervisors(Employee employee). Note: The employee at the highest hierarchy will have a null value for supervisor parameter. Also it is helpful to create a method in the Employee class which returns an employee’s supervisor, such as Employee getSupervisor().
   c. Instantiate Employee objects e1, e2, and …en with some sample data of ssn, address, salary, sex, birthdate, supervisor. Consider atleast 15 different employees. Note that supervisor is itself another Employee object. The employee at the highest hierarchy will have a null value for supervisor parameter.
   d. Make calls to the methods you have defined above. Show the output to the TA.

Submission: Upload all your files on D2L under folder Assignment 5. Show the output to the TA, when you come for the next Lab.