This project is not a team project. Everyone must do his or her own programming.

Design a class named Person and its two subclasses named Student and Employee. Employee has two subclasses named Faculty and Staff. The Person class must contain fields for name, address, phone number, and email address. The Student class does not have to contain all the fields and methods of Project 8, but it must contain a status field, i.e., freshman, sophomore, junior, or senior. The Employee class contains fields for office, salary, and date-hired. The date-hired must be contained in a class named EmployeeHireDate that contains fields for year, month, and day. These fields must not be able to be changed after the object is created. The Faculty class must contain fields for office hours and rank. The Staff class must contain a field for title. Override the toString( ) method in each class to display the class name and the person’s name.

Draw UML Diagrams for all the classes.

Implement the classes.

Write a test program that creates objects of all the classes and invokes the toString( ) method for each object.