**Homework 10 ECE2310**

1. Design an inheritance hierarchy to include classes for **Student**, **GraduateStudent**, and  **UnderGraduate** and show it in the form of UML diagram. Name your own members for each class. For example, GraduateStudent may include a data member for the type of undergraduate degree awarded, such as B.A. or B.S., and the location of the institution that awarded the degree. UnderGraduate may include classification (freshman, sophomore).

Implement your design in C#, and write a driver program to test it.

2. Create a base class *BankAccount*. Decide what characteristics are common for checking and saving accounts and include these characteristics in the base class. Define derived classes for checking and savings. In your design , do not allow the banking base account to be instantiated --only the checking and saving classes. Use a *Program* class to test your design.