****9.3****(*The* *Account* *class*) Design a class named Account that contains:

* An int data field named id for the account.
* A double data field named balance for the account.
* A double data field named annualInterestRate that stores the current interest rate.
* A no-arg constructor that creates a default account with id 0, balance 0, and annualInterestRate 0.
* The accessor and mutator functions for id, balance, and annualInterestRate.
* A function named getMonthlyInterestRate() that returns the monthly interest rate.
* A function named withdraw(amount) that withdraws a specified amount from the account.
* A function named deposit(amount) that deposits a specified amount to the account.

Draw the UML diagram for the class. Implement the class. Write a test program that creates an Account object with an account ID of 1122, a balance of 20000, and an annual interest rate of 4.5%. Use the withdraw function to withdraw $2500, use the depositfunction to deposit $3000, and print the balance, the monthly interest.

****\*9.5****(*The* *Time* *class*) Design a class named Time. The class contains:

* Data fields hour, minute, and second that represent a time.
* A no-arg constructor that creates a Time object for the current time.
* A constructor that constructs a Time object with a specified elapse time since the middle of night, Jan 1, 1970, in seconds.
* A constructor that constructs a Time object with the specified hour, minute, and second.
* Three getter functions for the data fields hour, minute, and second.
* A function named setTime(int elapseTime) that sets a new time for the object using the elapsed time.

Draw the UML diagram for the class. Implement the class. Write a test program that creates two Time objects, one using a no-arg constructor and the other using Time(555550), and display their hour, minute, and second.

(*Hint:* The first two constructors will extract hour, minute, and second from the elapse time. For example, if the elapse time is 555550 seconds, the hour is 10, the minute is 19, and the second is 10. For the no-arg constructor, the current time can be obtained using time(0), as shown in [Listing 2.9](https://revel-ise.pearson.com/eps/sanvan/api/item/1bbc97a9-78b2-404d-abb0-959a16e2c819/1/file/liang-rfitpwc-4e_Revel_v5i/OPS/xhtml/ch02_pg0011.xhtml#P7001013097000000000000000000DE9), ShowCurrentTime.cpp.)