

# Assignment 1

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## Question 1

1. Constructor is used for setting up the classes and initializing the variables associated with each object.
2. There are two differences between a constructor and other methods:
  - Constructor has the same name that the class;
  - Constructor does not return any value

## Question 2

Variables and methods that are marked like “private” in one class cannot be obtained by the other class or object. However, if we use “public” for any variable or method in one class, other class or object can invoke this variable without any troubles.

The programmer decides which one to use depending on wants him to allow one class to has an access of the variables and methods of other classes or no. To make a good decision, programmers use different considerations like the encapsulation (provides only necessary parts of the class that is needed to interact with other classes)

## Question 3

1.
  - `double accountBalance` (balance is floating point number, so we use “double” data type);
  - `string accountHolderName`(the holder’s name is string, so we use “string”data type);
  - `int accountNumber`(the account number is integer, so we use “int” data type).

2.

- a. public void withdraw (double amount)
- b. public void deposit (double amount)
- c. public double getBalance()
- d. public String getAccountInfo()
- e. public void chargeFee()
- f. public Account(double accountBalance, String  
accountHolderName, int accountNumber)