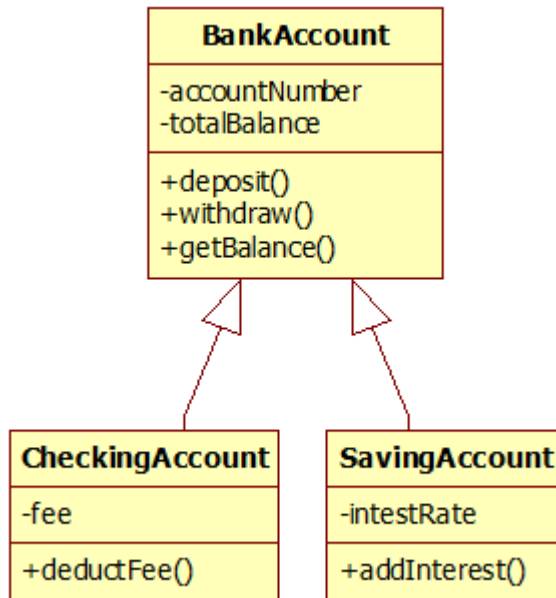


Assignment2

Inheritance

1. Write java program to implement Inheritance with following example:



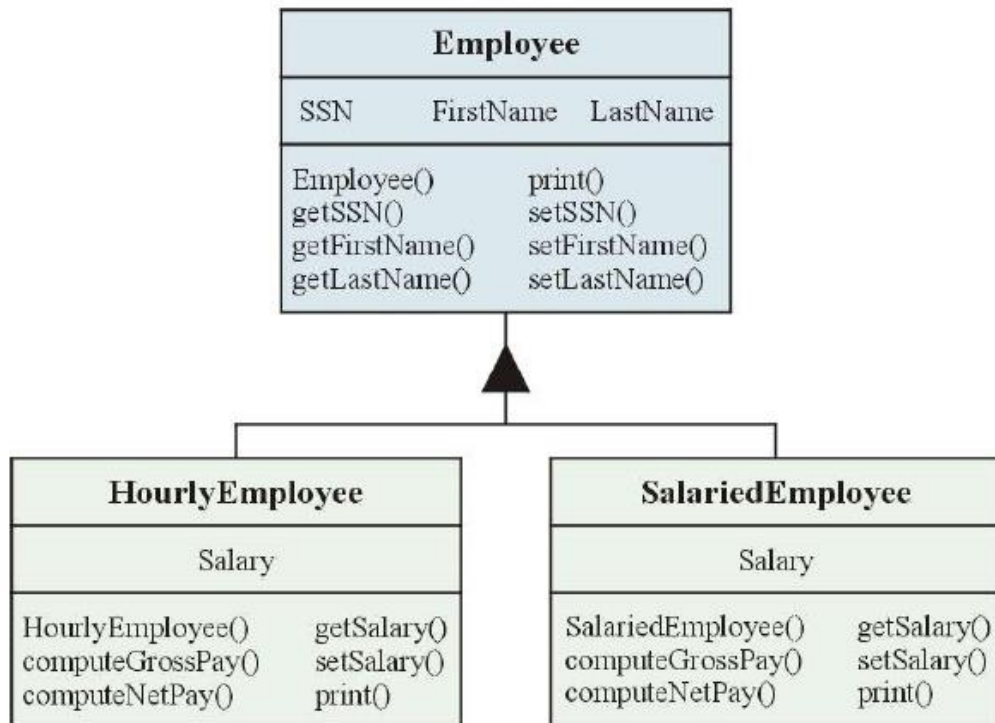
2. Write java program to implement Inheritance with following example:

Person will have name and age as data members. Teacher and employee will inherit data members in the super class and create its own method `myProfession()` to display their profession. Then create objects of Teacher, Permanent, and Contract employee to display their profession..

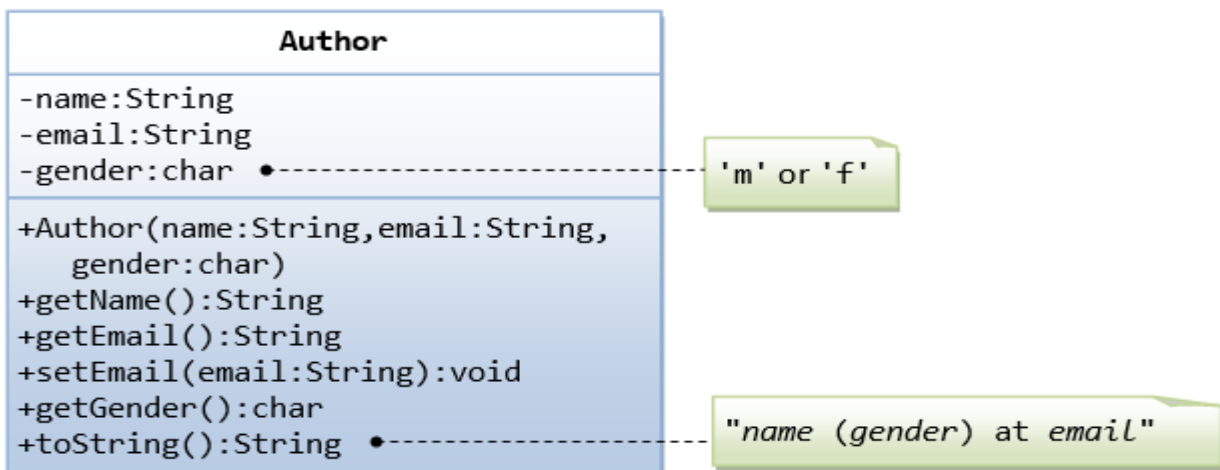


3. Write java program to implement Inheritance with following example:

Inheritance Concepts - Example



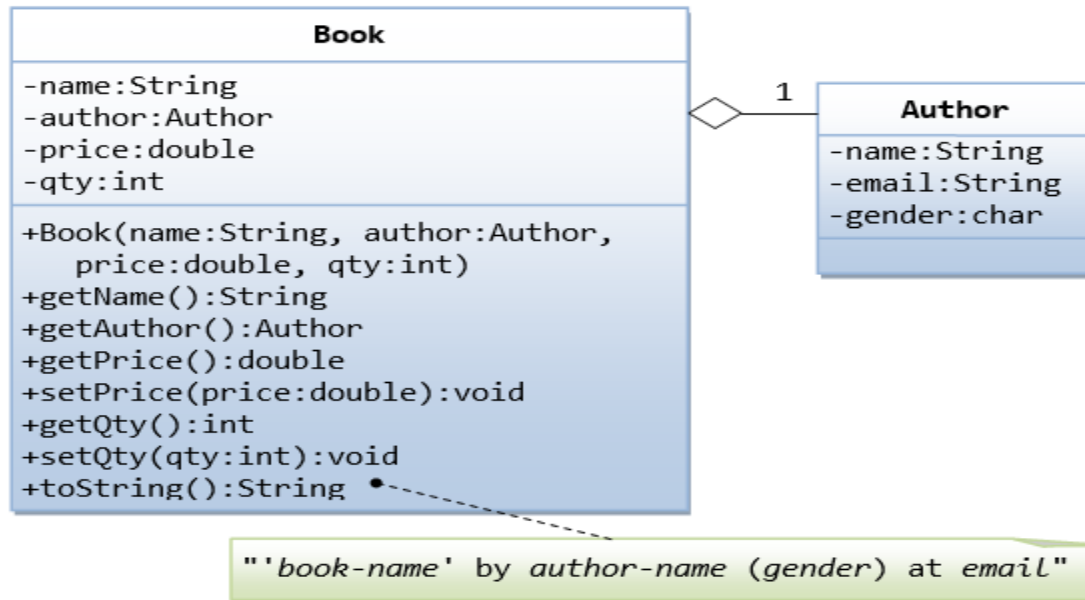
Inheritance using has a relationship Author class



A class called **Author** is designed as shown in the class diagram. It contains:

- Three private member variables: name (String), email (String), and gender (char of either 'm' or 'f' - you might also use a boolean variable called isMale having value of true or false).
- A constructor to initialize the name, email and gender with the given values. (There is no *default constructor*, as there is no default value for name, email and gender.)
- Public getters/setters: getName(), getEmail(), setEmail(), and getGender(). (There are no setters for name and gender, as these properties are not designed to be changed.)

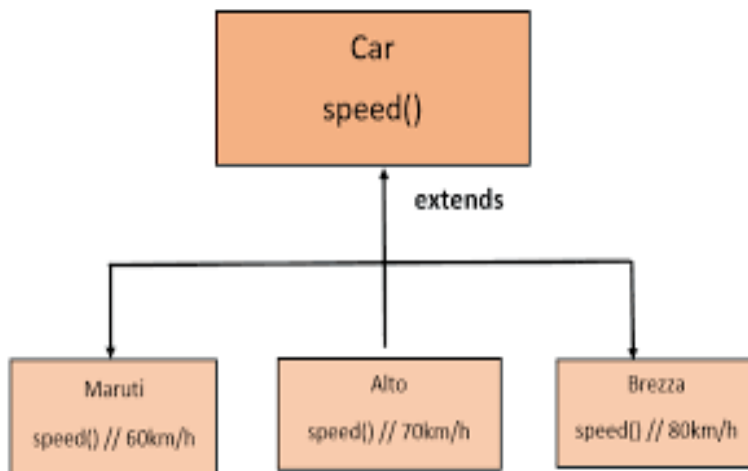
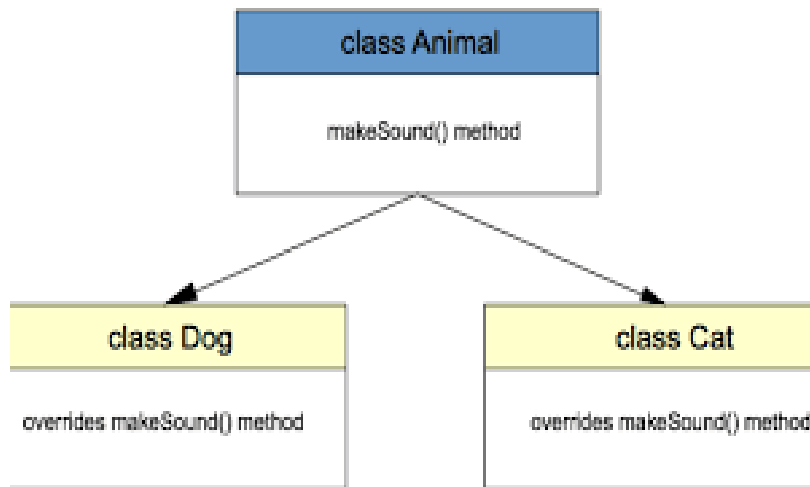
A Book is written by one Author - Using an "Object" Member Variable

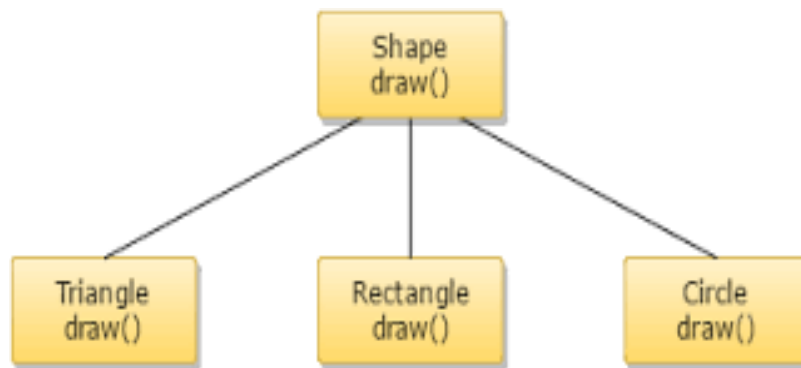


Let's design a Book class. Assume that a book is written by one (and exactly one) author. The Book class (as shown in the class diagram) contains the following members:

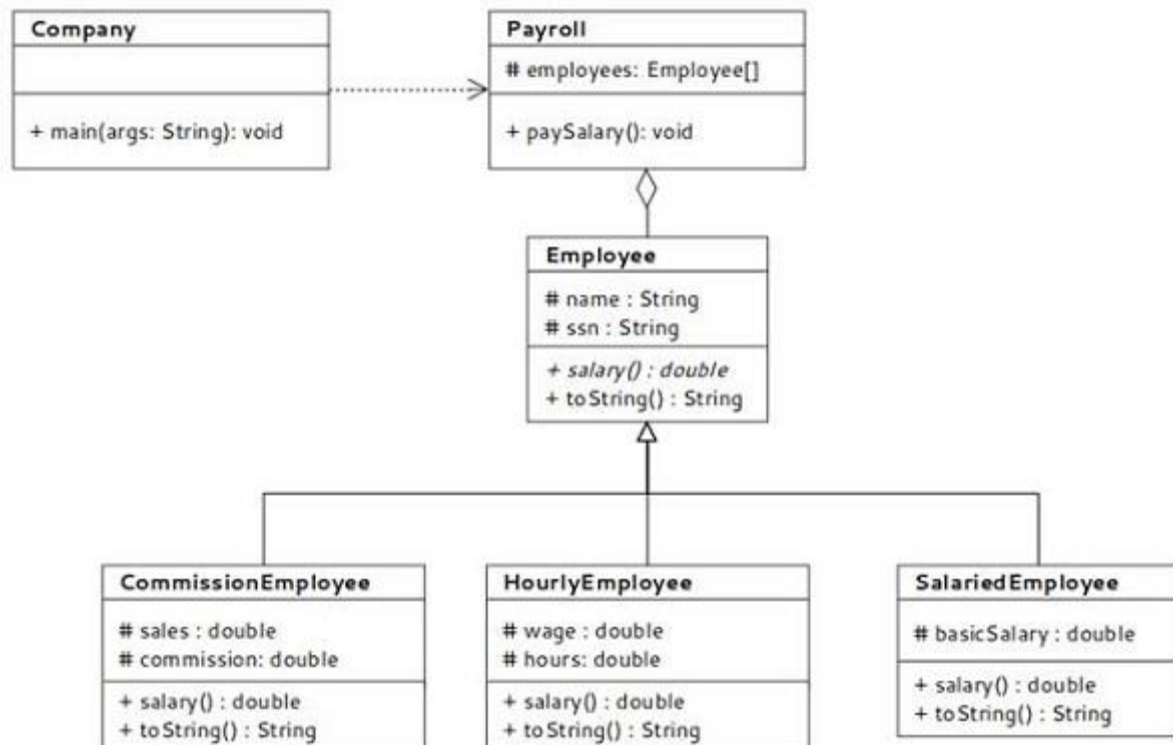
- Four private member variables: name (String), author (an *instance* of the Author class we have just created, assuming that each book has exactly one author), price (double), and qty (int).
- The public getters and setters: getName(), getAuthor(), getPrice(), setPrice(), getQty(), setQty().

4) Write java program to implement Polymorphism with following example





Polymorphism



Write java program to implement interface with following example

