encapsulation:

import java.util.\*;

import java.io.\*;

class Author{

public static String email;

public static char gender;

public static String name;

Author(String n,String e,char g)

{

name=n;

email=e;

gender=g;

}

}

class Book{

String name1,author;

double price;

int qtyInStock;

Book(String n1)

{

name1=n1;

}

public void setPrice()

{

price=100;

}

public double getPrice()

{

return price;

}

public void setQtyInStock()

{

qtyInStock=10;

}

public int getQtyInStock()

{

return qtyInStock;

}

public String getName()

{

return name1;

}

public void getAuthor()

{

System.out.println("The name of the author is :"+Author.name);

System.out.println("The email id is :"+Author.email);

System.out.println("The gender is :"+Author.gender);

}

}

class Books{

public static void main(String args[])

{

Book b=new Book("Computer Networks");

Author a=new Author("amy","xxx.cse@rmd.ac.in",'f');

b.setPrice();

b.setQtyInStock();

System.out.println("The name of the book is :"+b.getName());

System.out.println("The price of the book is :"+b.getPrice());

System.out.println("The stock is :"+b.getQtyInStock());

b.getAuthor();

}

}

?//Inheritance:

public class Animal {

public Animal() {

System.out.println("A new animal has been created!");

}

public void sleep() {

System.out.println("An animal sleeps...");

}

public void eats() {

System.out.println("An animal eats...");

}

}

//then bird

public class Bird extends Animal {

public Bird() {

super();

System.out.println("A new bird has been created!");

// TODO Auto-generated constructor stub

}

public void sleep() {

System.out.println("A bird sleeps...");

}

public void eats() {

System.out.println("A bird eats...");

}

}

//then dog

public class Dog extends Animal {

public Dog() {

super();

System.out.println("A new dog has been created!");

// TODO Auto-generated constructor stub

}

public void sleep() {

System.out.println("A dog sleeps...");

}

public void eats() {

System.out.println("A dog eats...");

}

}

//then this main class

public class MainClass {

public static void main(String[] args) {

// TODO Auto-generated method stub

Animal animal = new Animal();

Bird bird = new Bird();

Dog dog = new Dog();

System.out.println();

}

}