/\* Write a superclass called Person and two subclasses called Student and Instructor using inheritance. Each person has a name and a birthdate. Each student has a major and grade point average. Each instructor has a salary and hire date. Write class declarations, constructors, accessors, mutators, and toString() methods for all classes. \*/

class Person {

public **String** name;

public **String** birthdate;

Person(**String** name, **String** birthdate) {

this.name = name;

this.birthdate = birthdate;

}

Person() {

this.name = "";

this.birthdate = "";

}

// To String

public **String** toString() {

return "Name: " + name + " Birthdate: " + birthdate;

}

// Setters

public **void** setName(**String** name) {

this.name = name;

}

public **void** setBirthdate(**String** birthdate) {

this.birthdate = birthdate;

}

// Getters

public **String** getName() {

return this.name;

}

public **String** getBirthdate() {

return this.birthdate;

}

}

class Student extends Person {

public **String** major;

public **double** gradePointAverage;

Student(**String** name, **String** birthdate, **String** major, **double** gradePointAverage) {

super(name, birthdate);

this.major = major;

this.gradePointAverage = gradePointAverage;

}

Student() {

super();

this.major = "";

this.gradePointAverage = 0.0;

}

// To String

public **String** toString() {

return super.toString() + " Major: " + this.major + " Grade Point Average: " + this.gradePointAverage;

}

// Setters

public **void** setMajor(**String** major) {

this.major = major;

}

public **void** setGradePointAverage(**double** gradePointAverage) {

this.gradePointAverage = gradePointAverage;

}

// Getters

public **String** getMajor() {

return this.major;

}

public **double** getGradePointAverage() {

return this.gradePointAverage;

}

}

class Instructor extends Person {

public **double** salary;

public **String** hireDate;

Instructor(**String** name, **String** birthdate, **double** salary, **String** hireDate) {

super(name, birthdate);

this.salary = salary;

this.hireDate = hireDate;

}

Instructor() {

super();

this.salary = 0;

this.hireDate = "";

}

// To String

public **String** toString() {

return super.toString() + " Salary: " + this.salary + " Hire Date: " + this.hireDate;

}

// Setters

public **void** setSalary(**double** salary) {

this.salary = salary;

}

public **void** setHireDate(**String** hireDate) {

this.hireDate = hireDate;

}

// Getters

public **double** getSalary() {

return this.salary;

}

public **String** getHireDate() {

return this.hireDate;

}

}