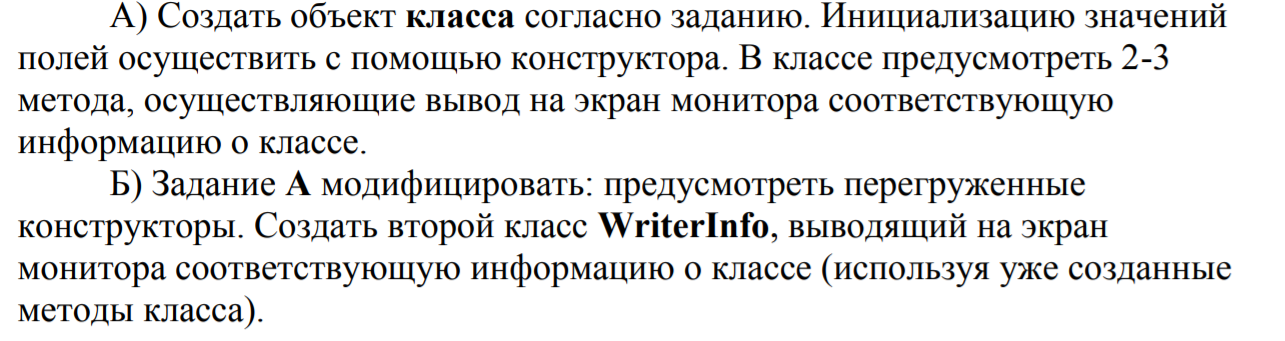
**Индивидуальная практическая работа № 1. «Объекты и классы»**



2. Состав класса Student (студент): фамилия, возраст, наличие задолженностей.

**Текст программы:**

**package** com.main;

**import** com.models.StudentB;

**public** **class** WriterInfo {

**private** StudentB student;

**public** WriterInfo(StudentB student) {

**this**.student = student;

}

**public** **void** printStudentLastName() {

System.***out***.println("Student last name: " + student.getLastName());

}

**public** **void** printStudentAge() {

System.***out***.println(String.*format*("%s is now %d years old", student.getLastName(), student.getAge()));

}

**public** **void** printStudentInfo() {

String info = String.*format*("Student last name: %s; Age: %d; Is Debtor: %b", student.getLastName(), student.getAge(), student.isDebtor());

System.***out***.println(info);

}

}

**package** com.models;

**import** java.util.ArrayList;

**public** **class** StudentA {

**private** String lastName;

**private** **int** age;

**private** ArrayList<String> namesDeptorDisciplines;

**public** StudentA(String lastName, **int** age, ArrayList<String> namesDeptorDisciplines) {

**this**.lastName = lastName;

**this**.age = age;

**this**.namesDeptorDisciplines = namesDeptorDisciplines;

}

**public** **void** printStudentLastName() {

System.***out***.println("Last name: " + **this**.lastName);

}

**public** **void** printStudentAge() {

System.***out***.println("Age is: " + **this**.age);

}

**public** **void** printIndebtedness() {

System.***out***.println("Arrears: ");

**for** (String arrear : namesDeptorDisciplines)

System.***out***.println(arrear);

}

**public** **void** printStudentInfo() {

System.***out***.println(String.*format*("Student last name: %s; Age: %d; Is Debtor: %b", **this**.lastName, **this**.age, **this**.namesDeptorDisciplines));

}

}

**package** com.models;

**import** java.util.ArrayList;

**public** **class** StudentB {

**private** String lastName;

**private** **int** age;

**private** ArrayList<String> namesDeptorDisciplines = **new** ArrayList<String>();

**public** StudentB(String lastName) {

**this**.lastName = lastName;

}

**public** StudentB(String lastName, **int** age) {

**this**.lastName = lastName;

**this**.age = age;

}

**public** StudentB(String lastName, **int** age, ArrayList<String> namesDeptorDisciplines) {

**this**.lastName = lastName;

**this**.age = age;

**this**.namesDeptorDisciplines = namesDeptorDisciplines;

}

**public** String getLastName() {

**return** lastName;

}

**public** **void** setLastName(String lastName) {

**this**.lastName = lastName;

}

**public** **int** getAge() {

**return** age;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

**public** **boolean** isDebtor() {

**return** !namesDeptorDisciplines.isEmpty();

}

**public** ArrayList<String> getNamesDeptorDisciplines() {

**return** namesDeptorDisciplines;

}

**public** **void** setNamesDeptorDisciplines(ArrayList<String> namesDeptorDisciplines) {

**this**.namesDeptorDisciplines = namesDeptorDisciplines;

}

}

**package** com.main;

**import** com.models.\*;

**import** java.util.ArrayList;

**import** java.util.Arrays;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

StudentA studA = **new** StudentA("Иванов", 19, **new** ArrayList<String>(Arrays.*asList*("Математика", "Физика")));

studA.printStudentLastName();

studA.printStudentAge();

studA.printStudentInfo();

studA.printIndebtedness();

System.***out***.println("------------------------");

StudentB studB = **new** StudentB("Сидоров");

studB.setAge(20);

ArrayList<String> arrears = **new** ArrayList<String>();

studB.setNamesDeptorDisciplines(arrears);

WriterInfo writer = **new** WriterInfo(studB);

writer.printStudentLastName();

writer.printStudentAge();

writer.printStudentInfo();

}

}

**Результат выполнения:**

