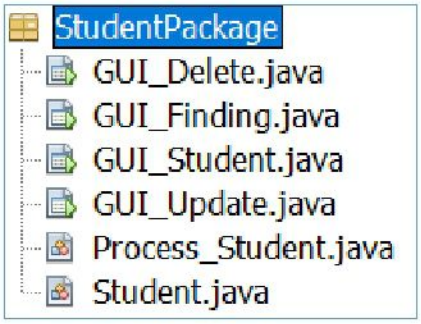
WORKSHOP 04

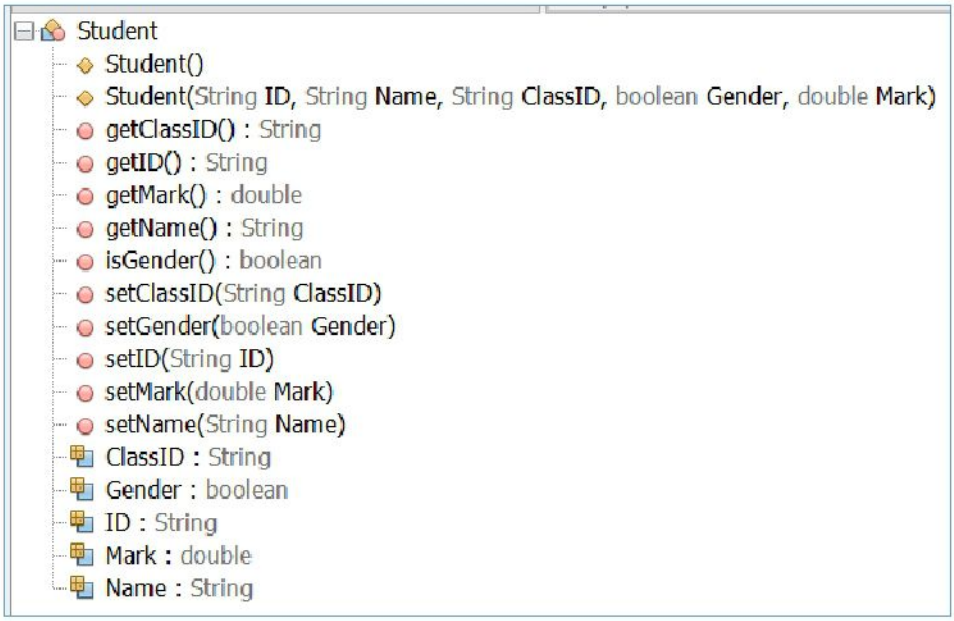
Exercise 1:

1. Using MySQL to create the database **DB_Student** containing the table *tbStudent(ID, Name, IDClass, Address, Mark)*.

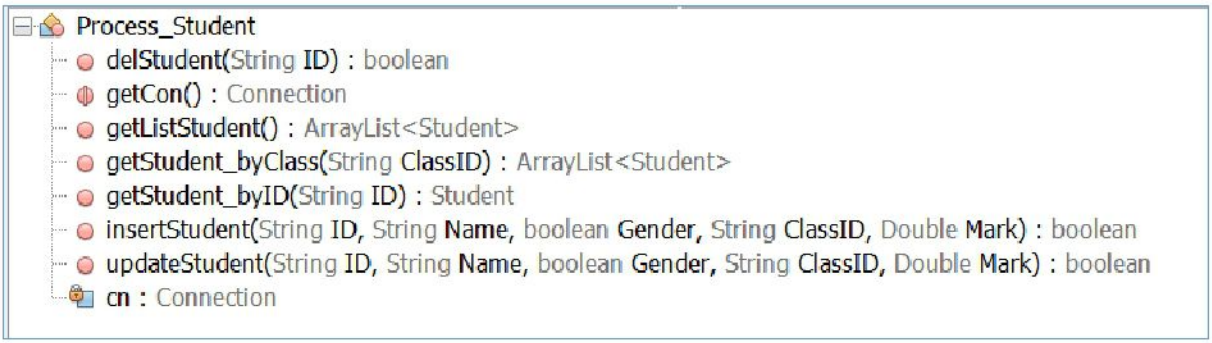
2. Create a Project having the following structure:



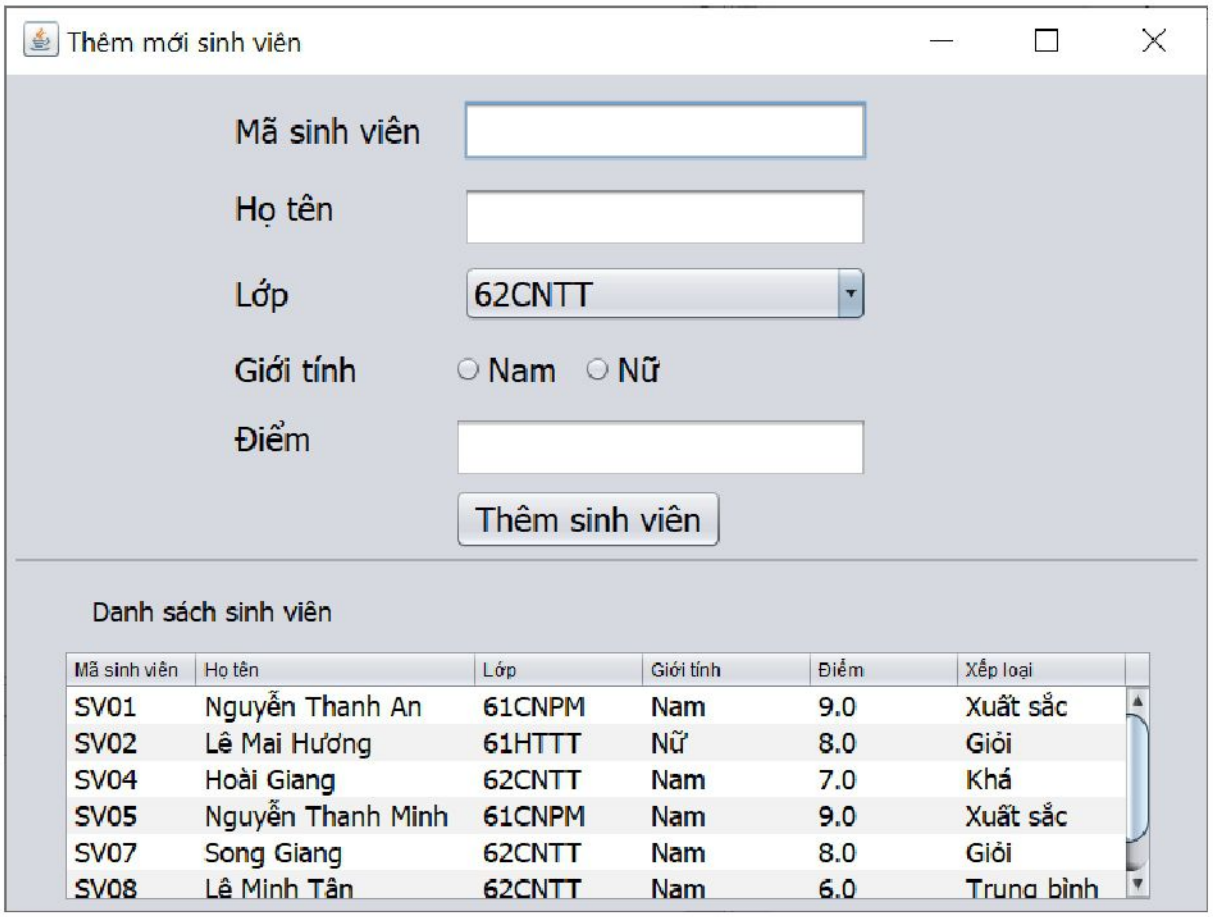
3. Design and code the class **Student** that holds information about a student.



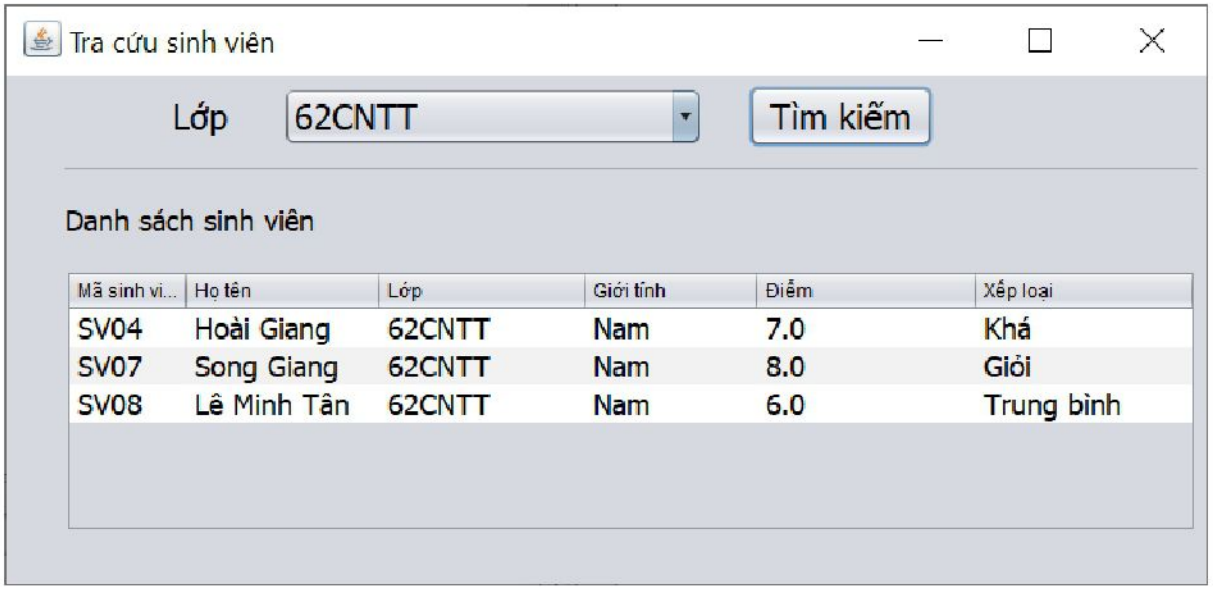
4. Design and code the class **Process_Student** that consists of the following properties and methods:



5. Design and code the class **GUI_Student**, which inserts a new student into the tbStudent table



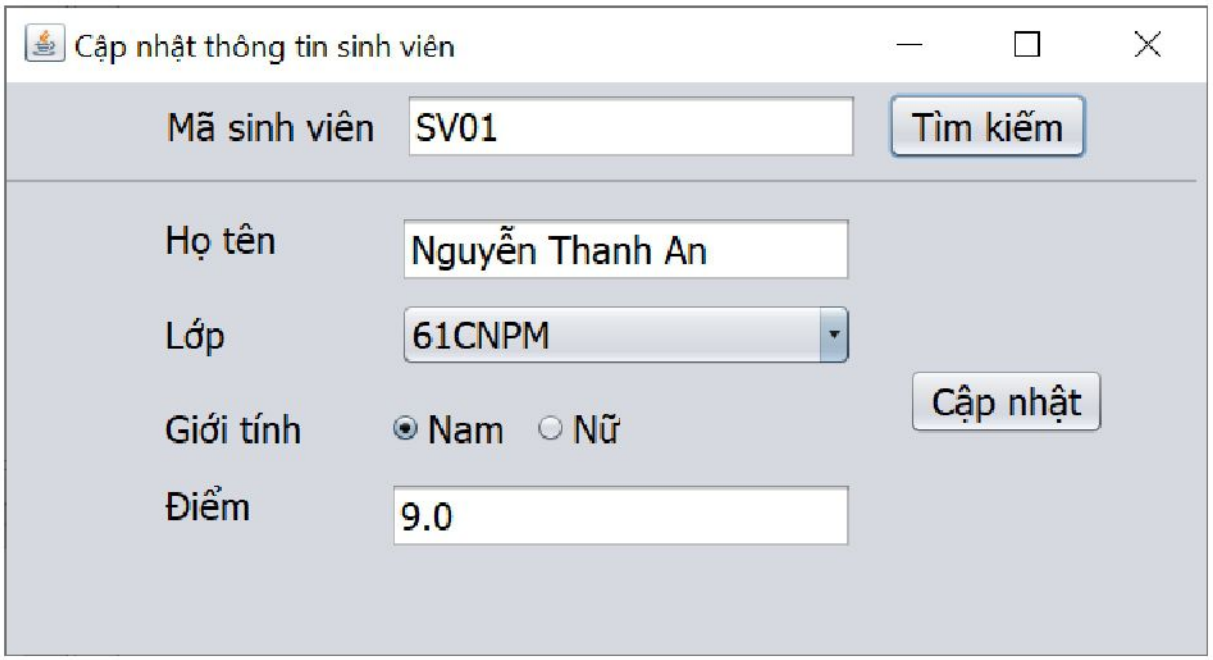
6. Design and code the class **GUI_finding**, which fetch all students in the tbStudent table by ClassID.



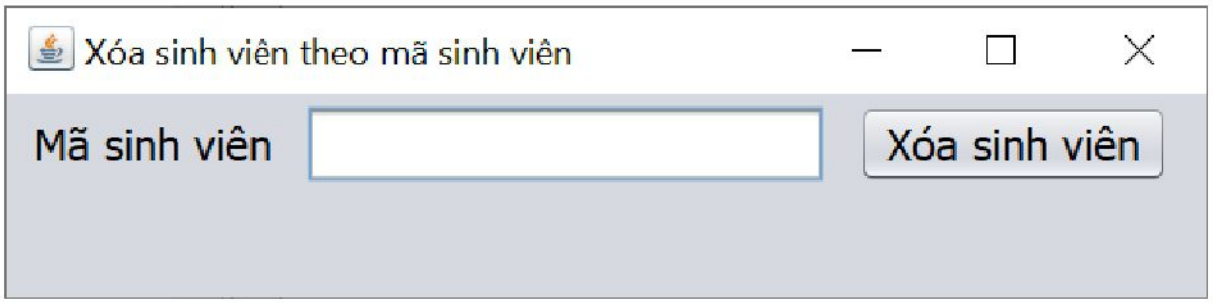
7. Design and code the class **GUI_Update**, which implements:

- Fetch a student with a inputed ID.

- Update the information for a student whose ID number is a inputed ID.



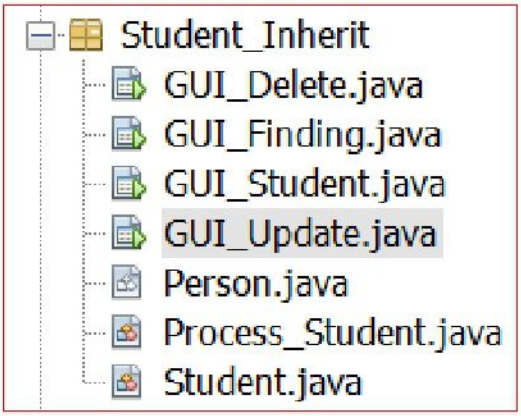
8. Design and code the class **GUI_Delete**, which will delete a student, whose ID is inputed ID.



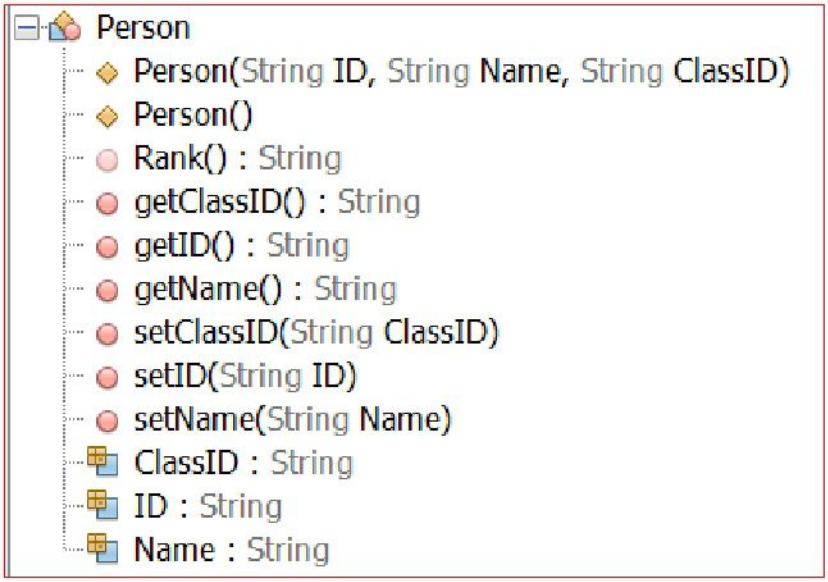
Exercise 2:

1. Using MySQL to create the database **DB_Student** containing the table *tbStudent(ID, Name, IDClass, Address, Mark)*.

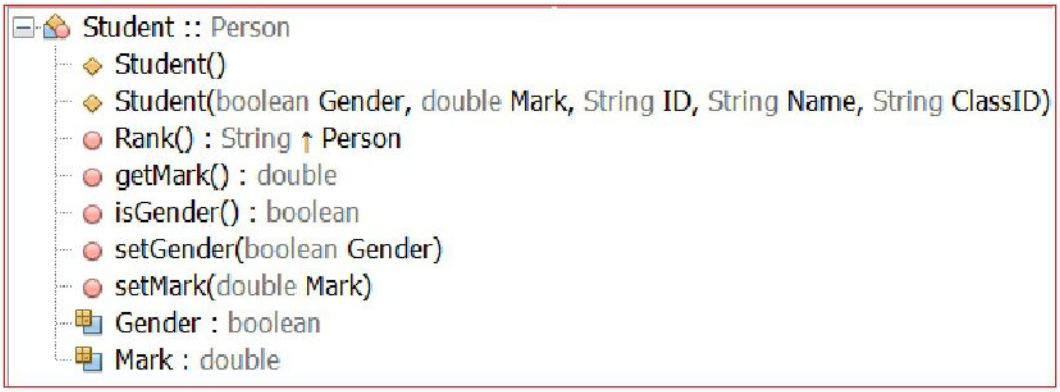
2. Create a Project having the following structure:



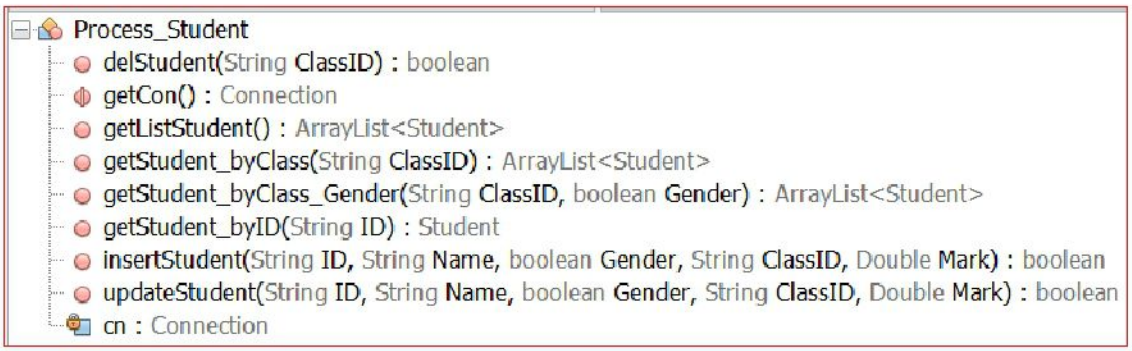
3. Design and code the abstract class **Person** that holds information about a person.



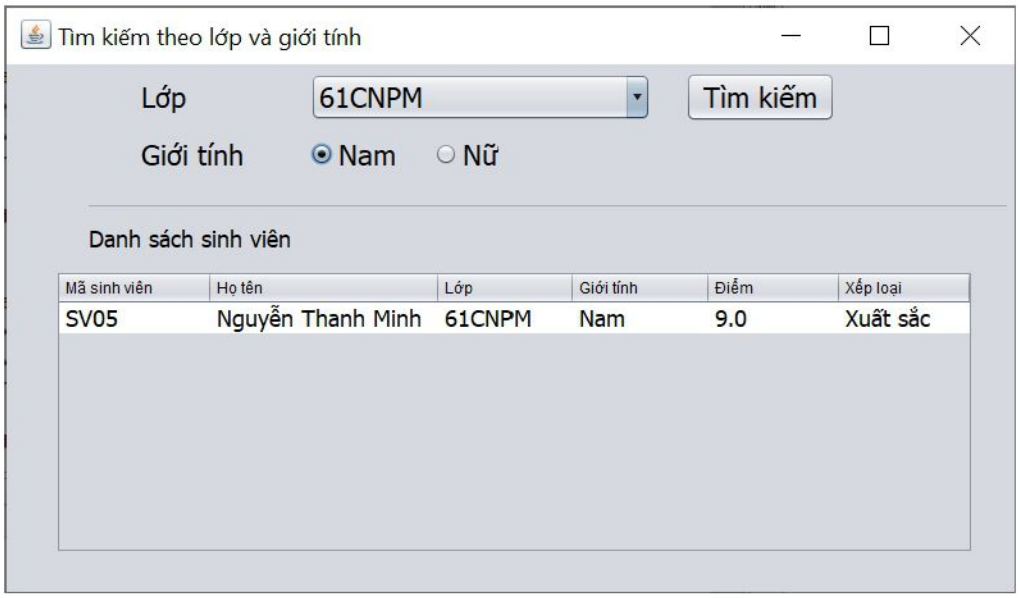
4. Design and code the class named **Student** which is derived from **Person**



5. Design and code the class **Process_Student** that consists of the following properties and methods:



6. Design and code the class **GUI_finding**, which fetch all students in the tbStudent table by ClassID and Gender.

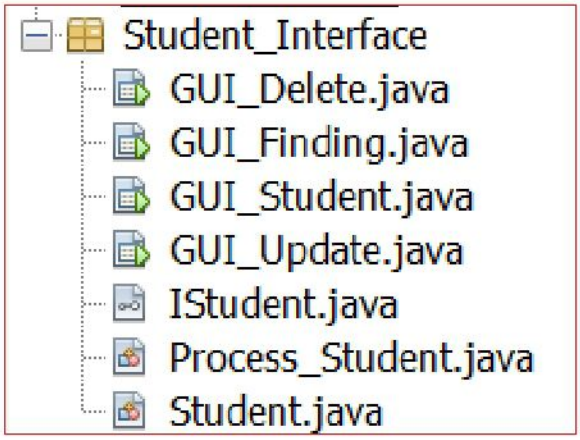


7. Design and code the class **GUI_Delete**, which will delete a student, whose ClassID is inputed ClassID.

Exercise 3:

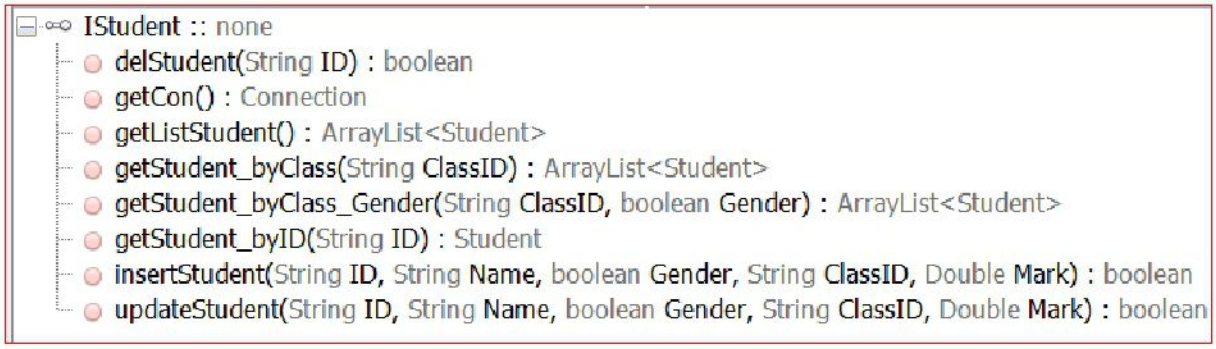
1. Using MySQL to create the database **DB_Student** containing the table *tbStudent(ID, Name, IDClass, Address, Mark)*.

2. Create a Project having the following structure:

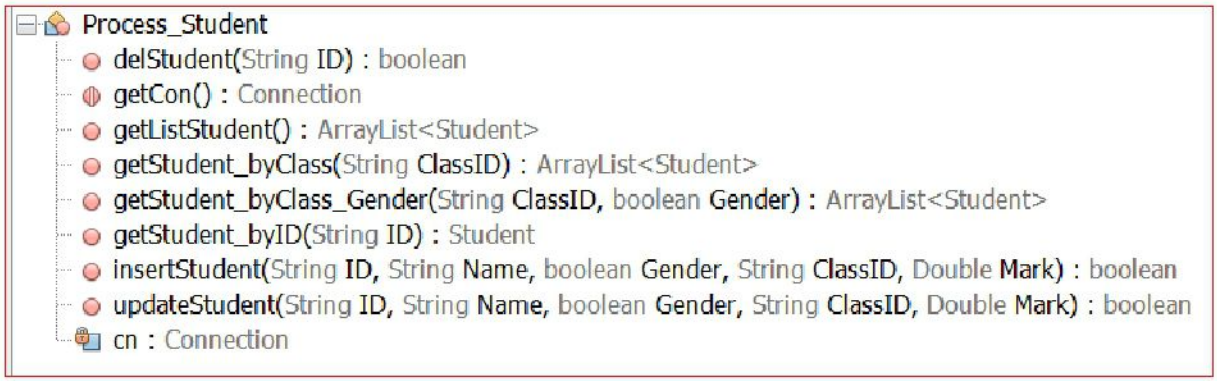


3. Design and code the class **Student** that holds information about a student. (See Exercise 1)

4. Design and code the interface **IStudent** that consists of the following methods:



5. Design and code the class **Process_Student** which implements the interface **IStudent**, thus it must implement methods in IStudent interface:



6. Design and code the class **GUI_Student**, which inserts a new student into the tbStudent table. (See Exercise 1)

7. Design and code the class **GUI_finding**, which fetch all students in the tbStudent table by ClassID and Gender. (See Exercise 2)

8. Design and code the class **GUI_Update**, which implements (See Exercise 1)

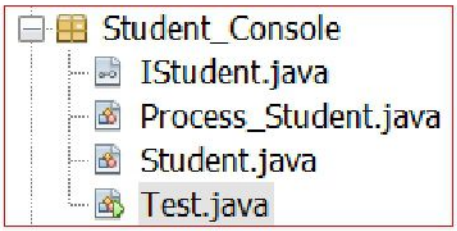
- Fetch a student with a inputed ID.
- Update the information for a student whose ID number is a inputed ID.

9. Design and code the class **GUI_Delete**, which will delete a student, whose ID is inputed ID. (See Exercise 1)

Exercise 4:

1. Using MySQL to create the database **DB_Student** containing the table *tbStudent(ID, Name, IDClass, Address, Mark)*.

2. Create a Project having the following structure:



3. Design and code the class **Student** that holds information about a student. (See Exercise 1)

4. Design and code the interface **Istudent.** (See Exercise 3)

5. Design and code the class **Process_Student** which implements the interface **IStudent**, thus it must implement methods in IStudent interface. (See Exercise 3)

6. Design and code the class Test which consists of the following properties and methods: