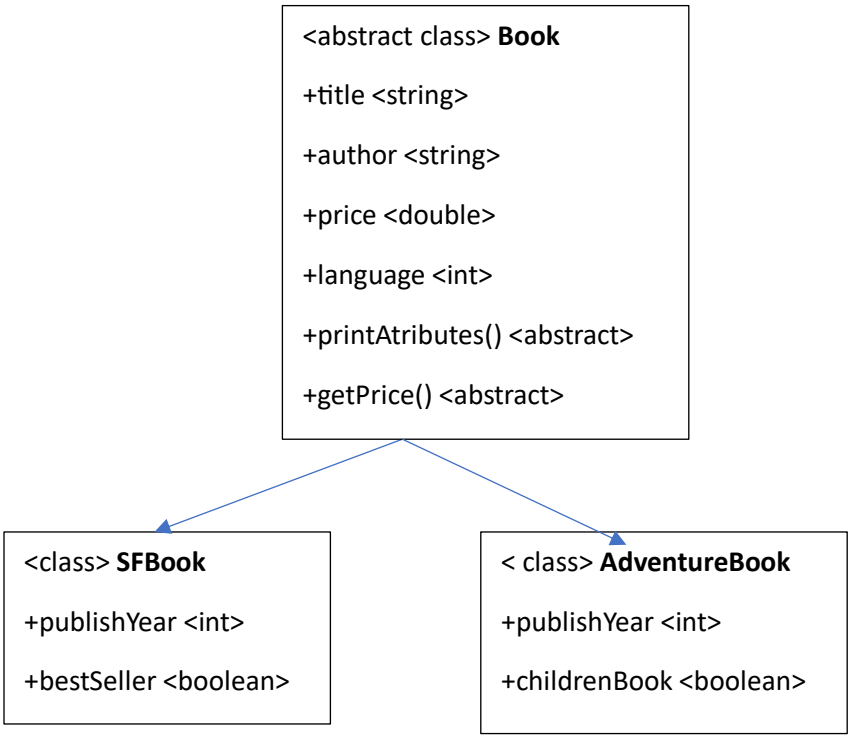
Student Name _____ Student ID_____

Assignment 1 (50%)

Using Eclipse create a new java project named “PLFT”, create new package named “ass1”. In the new package, create the Classes, attributes, and methods as described in the following diagram, relationship is marked with an arrow:



Each class should have two constructors, one with and one without parameters.

The method printAtributes() should print all attributes for each class.

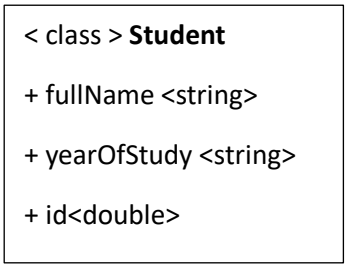
In the main class Demo, create two lists, one of SF and of Adventure books.

Create a menu that will enable the following operation for a user:

1. Input SF book.
2. Input Adventure book.
3. List all books.
4. List the oldest book.
5. List the most expensive book.
6. List the average price of all books.
7. Exit the program.

Assignment 2 (50%)

In the same project created for Assigment1, create a new package named “ass2”. In the new package, create the Class and attributes as described in the following diagram:



Create the needed getters and setters.

The main class Demo should have methods:

- Student createStudent (String fullName, String yearOfStudy, int id), returns new object Student for the provided parametars.
- void print(Student student) prints all Student attributes.

In the main method create a list (List<String>) of five Students full names (name and sure name ex. “Kole Kolev”) and assign some meaningful values.

Using java stream functions create a Student list with Student objects for each name in the above list of student’s names, for yearOfStudy pick a random number from 1 to 3 and for id pick a random number from 1000 to 9999.

Print the attributes for each of the created Student objects.

Create a new list containing only Student from second year and print the new list.