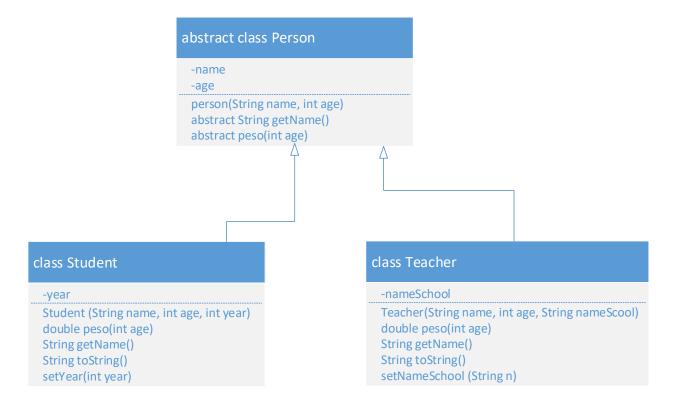
Lab-6: Abstract Class

Objectives

- 1. The notions of Abstract classes.
- 2. To use keyword implements to use a interface.
- 3. How constructors are used in inheritance hierarchies

Exercise

1. Given the following class hierarchy:



- a. Write an abstract class Person that implements the above methods. A person should have a given name and age.
- b. Write the Student class that inherit from Person. In addition to a name, age, Students should have a current year in school (year). The method toString() print Student information as well. The method getName() return the name variable, setYear() modify the variable year and the method peso() find the weigh of the student (peso = year*age)
- c. Write the Teacher class that inherit from Person. In addition to a name, age, Teacher should have the name of the school (nameSchool). Method peso() find the weigh of the teacher (peso = $age*\pi$). Others method have the same structure like Student.
- d. Write a PersonTest that is capable of printing a list of four students and two teachers. Test all methods and change the variables (set methods).