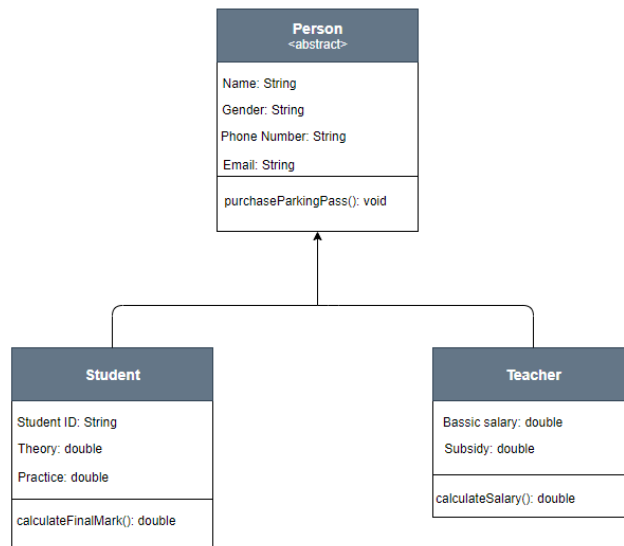## Assignment Specifications:

For the class hierarchy is as follows, the trainee let's create the java classes install this class diagram to be able to relationship between it.

» The **Person** is an abstract superclass and has four fields: *fullName*, *gender*, *phone*, *email*.

» The **Student** is a concrete subclass of **Person** and adds 3 new fields: *studentId*, *theory*, *practice*. Provide **calculateFinalMark**() method to calculate the final mark of a student by an average of theory and practice.

» The **Teacher** also is a concrete subclass of **Person** and adds two new fields: *basicSalary*, *subsidy*. Provide method **calculateSalary**() to calculate the teacher's salary by recipe:

Salary = Basic salary + Subsidy.

Business Rules:

» *birthDate*: correct date format (dd/MM/yyyy).

» *email*: correct email format.

» *theory*, pactice: in the range from 0 to 10.

Problem Descriptions:

Create a class named PersonManage that contains the main method will be using the Person class and its subclasses allow selecting the functions as follows:

» Input data from the keyboard: create an array of 10 Person of all types as mentioned above.

» Update student: update student info by entering studentId.

» Display teacher: displays information about teachers, who has a salary higher than 1000$.

» Report: display all students and their final mark, who qualify to pass the course (final mark >= 6).

Guidelines:

Create a project named TrainingManagement:

» Package *training.entities* that contains **Person, Student** and **Teacher** class.

» Package *training.utils* that contains **Validator** class for validation.

» Create a new package named *training.main* contains **Program** class.

--THE END--