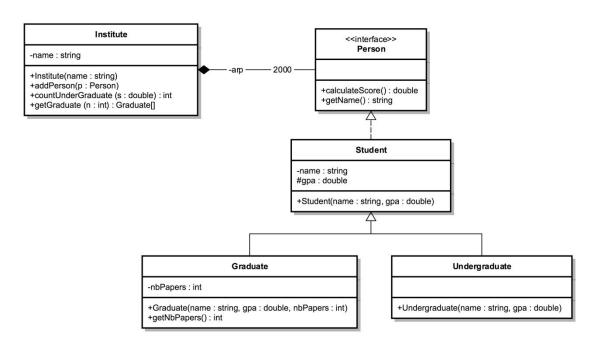
King Saud University College of Computer and Information Sciences Department of Computer Science CSC113 – Computer Programming II – Abstract Classes and Interfaces Lab – Spring 2017



Interface Person:

- METHODS:
 - calculateScore (): calculated as:
 - *for Graduate* : Score = nbPapers * gpa
 - *for UnderGraduate*: Score = gpa * 3 + 5
 - *getName* (): returns the *name* of the student.

Student class

- METHODS:
 - Student (name: String, gpa : double): constructor.

Graduate class

- METHODS:
 - Graduate (name: String, gpa : double, nbPpapers : int): constructor.
 - *getNbPapers():* getter for attribute *nbPapers*.

UnderGraduate class

- METHODS:
 - UnderGraduate (name: String, gpa : double): constructor.

Institute class

- METHODS:
 - *Institute(name: String):* constructor.
 - *addPerson(p: Person):* add a person to the institute.
 - *countUnderGraduate (s : double):* count the number of *UnderGraduate* in the institute with score grater or equal to *s*.
 - *getGraduate (n : int):* this method will return an array containing all the *Graduate* with number of papers greater than *n*.

QUESTION: Translate into Java code all the classes