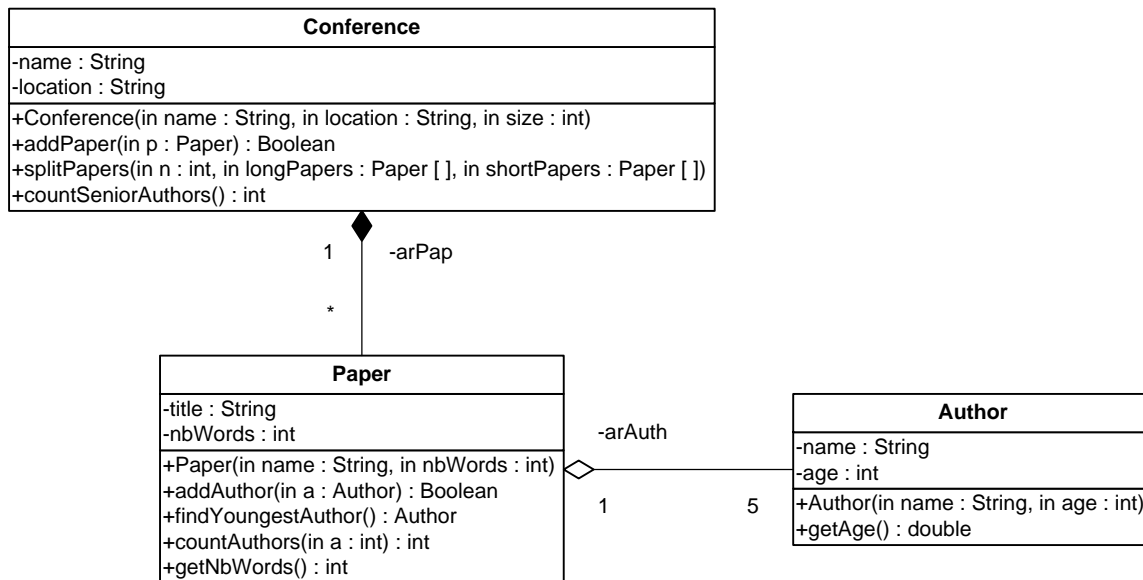


King Saud University
College of Computer and Information Sciences
Department of Computer Science
CSC113 – Computer Programming II – Lab No 4 – Spring 2016

Exercise1:



Author class:

- Attributes:
 - **name**: the name of the author.
 - **age**: the age of the author.
- Methods:
 - **Author (name: String, age: int)**: constructor
 - **getName()**: this method returns the name of the author.
 - **getAge()**: this method returns the age of the author.

Paper class:

- Attributes:
 - **title**: the title of the paper.
 - **nbWords**: the number of words of the paper.
- Methods:
 - **Paper(title: String, nbWords: int)**: constructor
 - **addAuthor (a: Author)**:this method adds the author *a* to the paper . It returns *true* if the *author a* is successfully added. Otherwise, it returns *false*.
 - **findYoungestAuthor()**:this method returns the youngest author of the paper.
 - **countAuthors (a: int)**:this method returns the number of authors having the age greater or equal to *a*.
 - **getNbWords ()**:this method returns the number of words of the paper.

Conference class:

- Attributes:
 - **name**: the name of the conference.
 - **location**: the name of the city where the conference is held.
- Methods:
 - **Conference(name: String, location:String)**: constructor
 - **addPaper (p: Paper)**:this method adds the paper *p* to the conference . It returns *true* if the *paper p* is successfully added. Otherwise, it returns *false*.
 - **splitPapers(n: int, longPapers: Paper[], shortPapers: Paper[])**:this method receives two arrays. It inserts the papers having the number of words greater than *n* into the array *longPapers*. It inserts the papers having the number of words less than *n* into the array *shortPapers*.
 - **countSeniorAuthors ()**:this method returns the number of authors having the age greater or equal to *50*.

QUESTION: Translate into Java code the class **Author, Paper, Conference**.