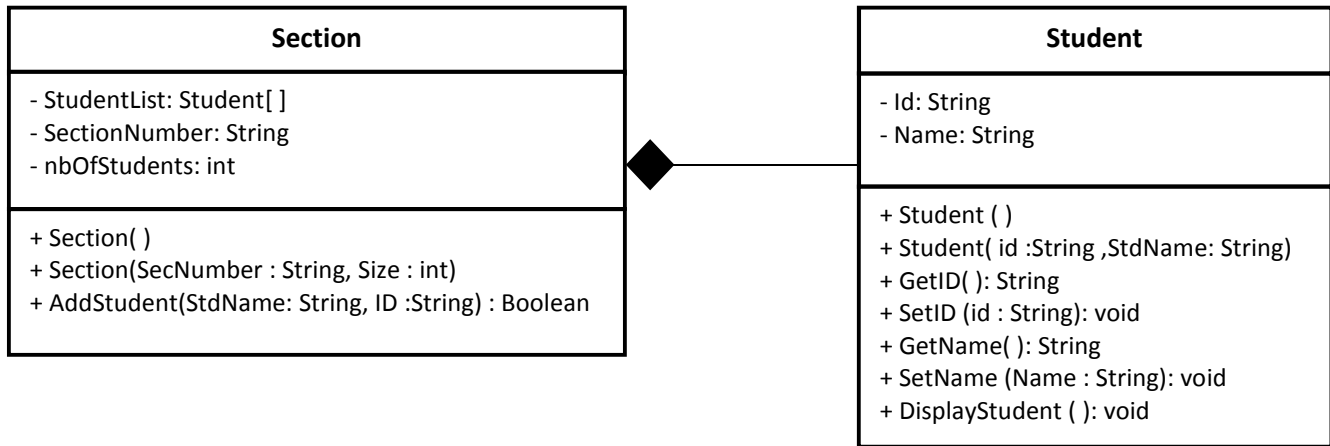


King Saud University

Collage of Computer and Information Sciences

Lab 1



Student

- **ID:** (String)

An object that holds the student ID, (e.g. 433000123. Why String?).

- **Name:** (String)

An object that holds the student's Name.

+ **Student ():**

Empty constructor.

+ **Student (ID, StdName):** *hint, use "this".*

Copy constructor, ID will copy the value of ID, and Name will copy the value of StdName.

Setters and Getters: To set and get the value of each attribute (ID, Name). Why Public?

+ **DisplayStudent ():**

Display the student info in the following format:
Student ID: 433000123 – Student Name: Ahmad

Section

- **StudentList:** (Student [])

Array to hold students information that registered in this section.

- **SectionNumber:** (String)

An object that holds the section number (e.g. 11602).

- **nbOfStudents:** (int)

Keep track of registered students in this section.

+ **Section():**

Empty constructor.

+ **Section(SecNumber, Size):**

Copy constructor.

+ **AddStudent(StdName: String, ID: String): Boolean**

This method will receive name and id, and it will add it to the students list (as a student object). It will return true if successfully added, false otherwise.

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Once you are done, you need to test your classes by implementing the class Lab1 with main method that shows the following menu:

Please choose one of the following options:

- 1 - Add Student (reading student information from user)
 - 2 - Display all the students (prints out all student information in that section).
 - 9 - Exit
-

Helpful tips and hints:

- To auto generate Getters and setters go to
Source -> Generate Getter and Setter
Or just type set and press Ctrl + Space for the variable you just added.
- To invoke the Auto Formatter for your code : Ctrl+Shift+F
- For auto complete: Ctrl + space
- To Undo: Ctrl + z
To Copy: Ctrl + c
To Paste: Ctrl + v
- - private, + public, # protected.