

King Saud University College of Computer and Information Sciences Computer Science Department		
CSC 111: Introduction to Programming with Java	Sheet 5 (Class and object)	First Quarter 1444

Create the below Student class

Student
<ul style="list-style-type: none"> - ID: int - Name: String - Stipend: double - University: String - GPA: double
<ul style="list-style-type: none"> + SetInfo (int ID, String name, String uni, double gpa): void + PrintInfo (): void + getUni (): String + changeGPA(double newGPA): void + checkSameGPA(Student B): Boolean

Explanation:

- a. The Student class has the 5 private attributes.
- b. The SetInfo method gets the ID, name, university and gpa of a student then sets these values to the attributes in the student object accordingly. As for the stipend amount, it will be depending on the gpa: if the gpa is 4 or more the stipend will be 1000, otherwise it will be 900.
- c. The PrintInfo method prints all the student attributes.
- d. The changeGPA method gets the new gpa as a parameter then sets it as the gpa of this student. Also, it changes the stipend amount accordingly.
- e. The getUni method will return the university of that student.
- f. The checkSameGPA method will if this student has the same gpa as the other student B, returns true if they have the same gpa, false otherwise.

Write a main method that will test the class student as follows:

- a- Create a student object called obj1 with the following info
(4339999, Maha mohammed, KSU, 4.5)
- b- Create another student object called obj2 with the following info
(4338888, Dema saad, PSU, 3.9)
- c- Check if obj1 and obj2 study at the same university, print an appropriate message.
- d- Change the GPA of obj2, the new GPA should be entered by the user
- e- Now check if obj1 and obj2 have the same gpa and print an appropriate message.
- f- Print the information of both students.

