

**Q1. Write a Java programs to create the following class and objects, use addCourse method to insert four courses for each object, and invoke the methods of each object to display its name, address, grads and average of grades.**

Student	
-name: String	The name of the student.
-address: String	The address of the student.
-numCourses: int	The number of courses studied by the student (default: 0).
-courses: String []	The name of courses studied by the student.
-grades: int []	The score of the student for each course.
+Student(name: String, address: String)	Create a student with specified name and address
+getName(): String	Returns the student name.
+getAddress(): String	Returns the student address.
+setAddress(address: String): void	Adds the address of student.
+toString() : String	Returns the student name(address).
+addCourseGrade(course: String, grade :int): void	Adds a new course to the courses list.
+printGrads(): void	Displays "name course1:grade1, name course2:garde2,.."
+getAverageGrade(): double	Returns the average of student scores.
	Returns the number of students for the course.

student1: Student
name: Moahmed Elsaid, address: Menouf

student2: Student
name: Ahmed Hasan, address: Cairo

**Q2. Write a Java programs to create the following class and objects, use addStudent method to insert four students for each object, and invoke the methods of each object to display its name, students and number of students.**

Course	
-name: String	The name of the course.
-students: String[]	The students who take the course.
-numberOfStudents: int	The number of students (default: 0).
+Course(name: String)	Creates a Course with the specified name.
+getName(): String	Returns the course name.
+addStudent(student: String): void	Adds a new student to the course list.
+getStudents(): String[]	Returns the students for the course.
+getNumberOfStudents(): int	Returns the number of students for the course.

course1: Course
name: Software Eng.

Course2: Course
name: Database

**Q3. Write a Java program to use the JFrame class in the javax.swing package to create two frames, use the methods in the JFrame class to set the title, size and location of the frames and to display the frames.**