Implement java program to represent relationship between the students and the courses.

1. Implement relationship using a java program. Assume each course has a course title, code, subject and number of credits while each student has a name, registration number, list of courses that the student follows and the marks for each course.
2. Use the text files given and store the information of courses and students
3. Define separate methods for the followings within suitable classes
4. Display the details of a student
5. Display the details of a subject
6. Calculate the average of a student
7. Find the grade of a particular subject of a student

Marks>=75 --- A

Marks>=65 --- B

Marks>=55 C

Marks>=45 D

Marks<45 F

1. Calculate overall average of a particular subject
2. Calculate the GPA of a student.

A ----- 4.0

B ------3.3

C ----- 2.7

D 1.5

F 0

1. Display the following menu.
2. Enter details of each student
3. Display details of a particular student
4. Calculate the GPA of a particular student
5. Find the grade of a particular course of a particular student
6. List out the registration numbers of a students who follow a particular course
7. Calculate the overall average of a particular subject
8. Display details of all the students in the faculty
9. Find the number of repeaters of a particular course
10. Find the person who has the highest GPA
11. Exit from the system
12. Perform operations given in the above menu, repeatedly until the users enters 10
13. Create the above program using GUI interface.