1. Write a program to maintain student information. For each student store studid, name, m1, m2 and m3 (marks of 3 subjects). Accept information for 2 students and display it as follows.

Student Details:

_____

Student Id

Name: Divya

M1 :   78

M2:   86

M3:   89

2. Write a menu driven program to maintain student information. Modify Student class created in previous assignment. Add a member gpa in student class, add a function in student class to return GPA of a student

calculateGPA()

gpa=(1/3)*m1+(1/2)*m2+(1/4)*m3

Create an array to store Multiple students.

1. Display All Student

2. Search by id

3. Search by name

4. calculate GPA of a student

5. Exit

Q2. Write a python program to store information of your friends

id,name,lastname,hobbies,mobno,email,bdate,address

note: hobbies- a friend may have multiple hobbies

Accept all friends details and store it in an array

And do the following.

1. Display All Friend

2. Search by id

3. Search by name

4. Display all friend with a particular hobby

5. Exit

2. Design a class hierarchy to maintain information for ABCTel telecom company , company wants to maintain information of customers and vendors.

For vendors they want to store vendorid, name, email, phone number,list of products they supply

For customers they want to store custid, name, email, credit class(based on credit history), discounts, plan assigned to customer

Customer may be Individual or a company

For individual customer, system should store phone number

For a customer of type Company, system should store info about relationship manager, credit line, extensions, list of numbers