```
Queite a program to create a class Student with members usn, non
  an array credits and an array marks. Calculate saph of studen
  impost java util Scannex;
  class Subject &
     int subM;
     int used;
     int goade;
     void set subDet (int marks, int cred) {
         this. subM = marks;
         this. coed = coed;
         if (subM>=90) {
             grade=10;
         else if (subm>=80) ?
             98ade=9;
         else if (subM>=70) {
             grade=8;
         else if (subm>=60) {
               grade=7;
         else if (subM>=50) {
               grade=6;
         else if (GUBM>=40) f
               grade = 5;
         else {
             grade=0;
  class student {
      Scannex s=new scannex (System.in);
```

```
Subject[] subjects = new Subjects [8];
 Studen+() {
    for (in+ i=0; i<subjects. length; i++) {
        subjects[i]=new Subject(); }.
 void getMarks() {
      Fox (int i=0; i< subjects.length; i++) {
          System out println (Enter marks for student subject "+ (+1)+
          int masks = s.nextIn+();
           System.out.println(Entex credit for subject "+(i+1)+":
           int cred = S. next Int();
           subjects [i]. set SubDet (masks, cred); }
 double calsGPAIJS
      double scare = 0;
      int total (xed = 0;
      double SGPA=D.O;
      fox (Subject subject: subjects) {
          Score+=(subject, grade * subject.coed);
          total_cred += subject. cred; }
      if (total-cored>0) {
         SGIPA = Score / total (red; }
      else &
         SGIPA=0; }
      ; Agaz nautes
public class Student Details ;
     public static void main (String [] args) {
     Scanner sc=new Scanner (System.in);
     System out println ("Enter number of semesters: ");
      int numsems = sc. nextInt();
      Student[] students = new Student [numsems];
      double c=0.0;
     String usn, name;
     System.out.println("Entex USN:");
     Usn=sc.next();
     System.out.println ("Enter name: ");
     name=sc.next();
```

```
fox (int i=0; i< numsems; (++) {
               System out println (Enter semester details: "+(++1);
               students [i] = new Student();
               students[1].getMaxKa);
               double s-students [i] · calsGPAC);
               C+=5;
        c=c/numsems;
        for (int i = 0; ic numsems; i++) {
              System out println ("USN: "+ WSN);
             System out, println (Name: "+ name);
             System at println ("SCAM for sem"+(i+1)+"; "+ students [i]. calscapacy)
       System. out. pointln (CCAPA: "+c);
atput:
Enter number of semesters: 1
Enter USN = 319
Enter Name = Ray
Enter details for semester 1
Enter marks for subject 1:80
Entex credit for subject 1:4
Enter masks for subject 2:85
Enter we olit for subject 2:4
Enter marks for subject 3:87
Enter credit for subject 3:3
Enter marks for subject 4:10
Enter coedit for subject 4:3
Enter marks for subject 5:18
Enter credit for subject 5:3
Enter marks for subject 6:98
Enter movedit for subject 6:1
Enter marks for subject 7:99
Enter credit for subject 7:1
Enter marks for subject 8:93
Enter credit for subject 8:93
Enter credit for subject 8:1
USN:319
Name · Raj
SGPA FOX SEM 1: 8.85
CGPA: 8.85
```

```
import java.util.Scanner;
class Subject {
  int subM;
  int cred;
  int grade;
  void setSubDet(int marks, int cred) {
     this.subM = marks;
     this.cred = cred;
     if (subM >= 90) {
        grade = 10;
     } else if (subM >= 80) {
        grade = 9;
     } else if (subM >= 70) {
        grade = 8;
     } else if (subM >= 60) {
        grade = 7;
     } else if (subM >= 50) {
        grade = 6;
     } else if (subM >= 40) {
        grade = 5;
     } else {
        grade = 0;
  }
}
class Student {
  Scanner s = new Scanner(System.in);
  Subject[] subjects = new Subject[8];
  Student() {
     for (int i = 0; i < subjects.length; i++) {
        subjects[i] = new Subject();
     }
  }
  void getMarks() {
     for (int i = 0; i < subjects.length; i++) {
        System.out.print("Enter marks for subject " + (i + 1) + ": ");
        int marks = s.nextInt();
        System.out.print("Enter credit for subject " + (i + 1) + ": ");
        int cred = s.nextInt();
        subjects[i].setSubDet(marks, cred);
     }
  }
  double calSGPA() {
```

```
double Score = 0;
     int totalCred = 0;
     double SGPA = 0.0;
     for (Subject subject : subjects) {
       Score += (subject.grade * subject.cred);
       totalCred += subject.cred;
     }
     if (totalCred > 0) {
       SGPA = Score / totalCred;
     } else {
       SGPA = 0;
     return SGPA;
  }
}
public class StudentDetails {
  public static void main(String[] arg) {
     Scanner sc = new Scanner(System.in);
     System.out.print("Enter number of semesters: ");
     int numSems = sc.nextInt();
     Student[] students = new Student[numSems];
     double cumulativeSGPA = 0.0;
     System.out.print("Enter USN: ");
     String usn = sc.next();
     System.out.print("Enter Name: ");
     String name = sc.next();
     for (int i = 0; i < numSems; i++) {
       System.out.println("Enter details for semester " + (i + 1));
       students[i] = new Student();
       students[i].getMarks();
       double semSGPA = students[i].calSGPA();
       cumulativeSGPA += semSGPA;
     }
     for (int i = 0; i < numSems; i++) {
       System.out.println("USN: " + usn);
       System.out.println("Name: " + name);
       System.out.println("SGPA for sem " + (i + 1) + ": " + students[i].calSGPA());
```

```
}
double CGPA = cumulativeSGPA / numSems;
System.out.println("CGPA: " + CGPA);
}
```

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