```
2) Java program to create a class student with
members usn, name, an array credits and an away marks.
include methods to accept and display details and a
            calculate SGPA of a student.
method to
  impost java. util. Scanner;
   class Student &
      int cates, marks ():
      string sname, usn.
      Student () &
         cdt = new int [5];
        maks = new int(5);
      2
     void getd () {
     Scanner ss = new Scanner (systemin)
      sname = ss.next(); wn = ss.next().
      for (int i=0; i23; i++)
      system. out-println ("forter credits" + (i+1)
        cdt[i]= ss.nextlnt();
        System. out. println ("Enter marks" + (i
        marks[i]= ssnextInt();
   void display() {
    system. out-printing details are: In Name: "+ sname)
    System. out. println ("USN:"+WN);
    fox (int i=0; i=8; i++)
  & System-out-paintln ("aedits:" + (i+i)+":"+ cdt[i]);
     System. out. println ("Marks:"+ (i+1) +":"+ marks(i));
```

```
public class main
void calco
$ , , ,
                     ٤
int +c=0;
                  public static void main
double tp = 0.0;
                           (string [] ags)
for (int i=0; 128; 14+) }
   tc+ = cd+ [i]
 int gp = getpoint (marks (i)); Student SI = new Stud
                   81·ge+d();
   +p+ = gp + cdt[i].
                           st-display ();
 4
                 si-calc()
 double s=tp/tc;
System out println ( sqpa: 4,5), 3
int get points (int marks)
 if (marks>=90 && marks 2=100)
    setuen 10:
 else if (marks >=80 dd marks2=90)
     return 9;
 else if (marks 7 = 70 dd marks 2 = 80)
     return 8;
   else if (marks = 60 &d marks = 90)
      return 7;
   else if (marks > = 50 &d marks = = 60)
       else if (marks >=40 && marks 2=50)
   return 5;
    else
         return o'
   3
 4
```

output: enter details: Harry . tBM23 (5106 Enter credits 1:4

Enter marks 2:89 Enter corredits 2: 3

Enter marks 2: 93

Enter credits 3: 2

Enter marks 3:94

Details' are:

Name: Houry

USN: 18M23C5106

Caedits 1: 4

Marks 1: 89

Cledits 2:3

Marks 2:93

Credits 3:2

exertity 2 194

month and the form

No 24 Marks: 94 8gpa: 9.55

four

```
import java.util.Scanner;
class Student {
  int[] cdt, marks;
  String sname, usn;
  Student() {
    cdt = new int[10];
    marks = new int[10];
  }
  void getd() {
    Scanner ss = new Scanner(System.in);
    System.out.println("Enter student details:");
    System.out.print("Name: ");
    sname = ss.next();
    System.out.print("USN: ");
    usn = ss.next();
    for (int j = 0; j < 3; j++) {
       System.out.print("Enter credits for subject " + (j + 1) + ": ");
       cdt[j] = ss.nextInt();
       System.out.print("Enter marks for subject " + (j + 1) + ": ");
       marks[j] = ss.nextInt();
    }
  }
  void display() {
    System.out.println("\nStudent Details:");
    System.out.println("Name: " + sname);
    System.out.println("USN: " + usn);
    for (int j = 0; j < 3; j++) {
      System.out.println("Subject " + (j + 1) + ": Credits = " + cdt[j] + ", Marks = " + marks[j]);
    }
  }
void calc() {
    int tc = 0;
    double tp = 0.0;
    for (int i = 0; i < 3; i++) {
```

```
tc += cdt[i];
    int gp = getpoints(marks[i]);
    tp+= gp*cdt[i];
  double s = tp / tc;
  System.out.printf("SGPA: %.2f\n", s);
}
int getpoints(int marks) {
  if (marks >= 90 && marks <= 100)
    return 10;
  else if (marks >= 80 && marks < 90)
    return 9;
  else if (marks >= 70 && marks < 80)
    return 8;
  else if (marks >= 60 && marks < 70)
    return 7;
  else if (marks >= 50 && marks < 60)
    return 6;
  else if (marks >= 40 && marks < 50)
    return 5;
  else
    return 0;
}
```

}

```
class Studentdemo {
  public static void main(String[] args) {
    Student s1 = new Student();
    s1.getd();
    s1.display();
    s1.calc();
}
```

```
C:\lBM23cs303>javac Studentdemo.java

C:\lBM23cs303>java Studentdemo
Enter student details:

Name: rony
USN: a0023
Enter credits for subject 1: 4
Enter marks for subject 2: 3
Enter marks for subject 2: 98
Enter credits for subject 3: 2
Enter marks for subject 3: 94

Student Details:

Name: rony
USN: a0023
Subject 1: Credits = 4, Marks = 89
Subject 3: Credits = 2, Marks = 98
Subject 3: Credits = 2, Marks = 94
SGPA: 9.56

C:\lBM23cs303>
```