import java.util.Scanner;

class Student

{

String usn,name;

int credits[];

float marks[];

int n;

float tot=0;

Student()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the number of subjects");

n=sc.nextInt();

credits=new int[n];

marks=new float[n];

usn="";

name="";

}

void Accept()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter your USN and Name");

usn=sc.nextLine();

name=sc.nextLine();

System.out.println("Enter credits and marks for each subject");

for(int i=0;i<n;i++)

{

credits[i]=sc.nextInt();

marks[i]=sc.nextFloat();

}

}

void Calculate()

{

int s=0;

int m=0;

float a=0;

for(int i=0;i<n;i++)

{

if(marks[i]>=90)

m=10;

else if( marks[i]>=80)

m=9;

else if( marks[i]>=70)

m=8;

else if( marks[i]>=60)

m=7;

else if( marks[i]>=50)

m=6;

else if( marks[i]>=40)

m=4;

else if(marks[i]<40)

m=0;

s=s+credits[i];

a=a+(credits[i]\*m);

}

tot=a/s;

}

void Display()

{

System.out.println("The details of the student");

System.out.println("USN:"+usn+" Name:"+name);

System.out.println("Credits and Marks");

for(int i=0;i<n;i++)

{

System.out.println(credits[i]+" "+marks[i]);

}

System.out.printf("SGPA %.2f",tot);

}

}

class StudentMain

{

public static void main(String args[])

{

Student s1=new Student();

s1.Accept();

s1.Calculate();

s1.Display();

}

}

