import java.util.\*;

class Student13

{

String USN;

String name;

int credits[];

int marks[];

int n,tot=0;

double SGPA;

Student13()

{

SGPA=0;

}

void input()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the USN and the name of the student");

USN=sc.nextLine();

name=sc.nextLine();

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

n=sc.nextInt();

credits=new int[n];

marks =new int[n];

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

{

System.out.println("Enter the credits for subject:"+(i+1));

credits[i]=sc.nextInt();

tot=tot+credits[i];

}

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

{

System.out.println("Enter the marks of the student for subject:"+(i+1));

marks[i]=sc.nextInt();

}

}

void grade\_points()

{

int i;

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

{

if(marks[i]>=90 && marks[i]<100)

{

marks[i]=10;

}

else if(marks[i]>=80 && marks[i]<90)

{

marks[i]=9;

}

else if(marks[i]>=70 && marks[i]<80)

{

marks[i]=8;

}

else if(marks[i]>=60 && marks[i]<70)

{

marks[i]=7;

}

else if(marks[i]>=50 && marks[i]<60)

{

marks[i]=6;

}

else if(marks[i]>=40 && marks[i]<50)

{

marks[i]=4;

}

else if(marks[i]<40)

{

marks[i]=0;

}

}

}

void calculate\_SGPA()

{

int i;

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

{

SGPA=SGPA+(credits[i]\*marks[i]);

}

SGPA=SGPA/tot;

}

void display\_details()

{

System.out.println("The student with USN:"+USN+", Name:"+name+" has SGPA:"+SGPA);

}

public static void main(String[] args)

{

Student13 obj=new Student13();

obj.input();

obj.grade\_points();

obj.calculate\_SGPA();

obj.display\_details();

}

}

OUTPUT:

