import java.util.Scanner;

class Student{

Scanner sc = new Scanner(System.in);

String USN;

String Name;

int credits[] = new int[5];

float marks[] = new float[5];

int points[] = new int[5];

float SGPA;

int totalCredits = 0;

void getDetails(){

System.out.println("Enter student USN: ");

USN = sc.nextLine();

System.out.println("Enter student Name: ");

Name = sc.nextLine();

for(int i=0;i<5;i++){

System.out.println("Enter Credits for Subject " + (i+1) + ": ");

credits[i] = sc.nextInt();

totalCredits += credits[i];

System.out.println("Enter Marks for Subject " + (i+1) + ": ");

marks[i] = sc.nextFloat();

}

}

void showDetails(){

System.out.println("Student USN: " + USN);

System.out.println("Enter student name: " + Name);

for(int i=0;i<5;i++){

System.out.println("Subject " + (i+1) + " - Credits: " + credits[i] + " - Marks: " + marks[i]);

}

System.out.println("SGPA of " + Name + " is: " + (float)(SGPA/totalCredits));

}

void calcSGPA(){

for(int i = 0;i<5;i++){

if(marks[i] > 100){

System.out.println("Error: Marks are above 100");

return;

}else if(marks[i] >= 90){

points[i] = 10;

}else if(marks[i] >= 80){

points[i] = 9;

}else if(marks[i] >= 70){

points[i] = 8;

}else if(marks[i] >= 60){

points[i] = 7;

}else if(marks[i] >= 50){

points[i] = 5;

}else if(marks[i] >= 40){

points[i] = 4;

}else{

points[i] = 0;

}

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

}

}

}

public class program {

public static void main(String args[]) {

Student st1 = new Student();

st1.getDetails();

st1.calcSGPA();

st1.showDetails();

}

}



