import java.util.\*;

class Subject {

int subjectMarks;

int credits;

int grade;

}

class Student

{

Subject subject[];

String name;

String usn;

double SGPA;

Scanner s;

Student()

{

int i;

subject=new Subject[9];

for(i=0;i<9;i++)

subject[i]=new Subject();

s=new Scanner(System.in);

}

void getStudentDetails(){

System.out.print("Enter your name: ");

name=s.next();

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

usn=s.next();

}

void getMarks()

{

for(int i=0;i<9;i++)

{

System.out.print("Enter marks for subject "+(i+1)+": ");

subject[i].subjectMarks=s.nextInt();

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

subject[i].credits=s.nextInt();

subject[i].grade=(subject[i].subjectMarks/10)+1;

if(subject[i].grade==11)

subject[i].grade=10;

if(subject[i].grade<=4)

subject[i].grade=0;

}

}

void computeSGPA()

{

int effectiveScore=0;

int totalCredits=0;

for(int i=0;i<9;i++)

{

effectiveScore+=(subject[i].grade\*subject[i].credits);

totalCredits+=subject[i].credits;

}

SGPA=(double)effectiveScore/(double)totalCredits;

}

}

class Main

{

public static void main(String args[]){

Student s1=new Student();

s1.getStudentDetails();

s1.getMarks();

s1.computeSGPA();

System.out.println("Name: "+s1.name);

System.out.println("USN: "+s1.usn);

System.out.println("SGPA: "+s1.SGPA);

}

}

