**Student SGPA**

**import java.util.Scanner;**

public class Student {

String USN;

String name;

int size;

int credits[];

int marks[];

double result;

Student (){}

Scanner s = new Scanner(System.in);

void input (){

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

USN = s.next();

name = s.next();

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

size=s.nextInt();

credits = new int[size];

marks = new int[size];

System.out.println("Enter "+size+" credits: ");

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

credits[i] = s.nextInt();

}

System.out.println("Enter "+size+" marks: ");

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

marks[i] = s.nextInt();

}

}

void display (){

System.out.printf("USN: "+USN+"\tName: "+name);

System.out.printf("\nCredits: ");

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

System.out.printf("%d\t",credits[i]);

}

System.out.printf("\nMarks: ");

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

System.out.printf("%d\t",marks[i]);

}

}

double sgpa (){

int grade[] = new int[size];

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

if (marks[i]>=90){

grade[i]=10;

}

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

grade[i]=9;

}

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

grade[i]=8;

}

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

grade[i]=7;

}

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

grade[i]=6;

}

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

grade[i]=5;

}

else{

System.out.println(marks[i]+" is invalid!");

}

}

result=0;

int credit\_sum = 0;

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

result += grade[i]\*credits[i];

credit\_sum += credits[i];

}

result = (result/credit\_sum);

return result;

}

}

class stud {

public static void main(String[] args) {

int choice;

int x=0;

Scanner ss = new Scanner (System.in);

Student s1 = new Student();

s1.input();

s1.display();

System.out.println ("SGPA= "+s1.sgpa());

}

