PROGRAM-2:SGPA CALCULATOR

import java.lang.\*;

import java.util.\*;

class sgpa{

Scanner sc = new Scanner(System.in);

int marks[]=new int[3];

int credits[]=new int[3];

int gradepoints[]=new int[3];

public void entermarks() {

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

for(int i=0;i<marks.length;i++) {

System.out.println("enter the subject"+ (i+1) +"'s marks");

marks[i]=sc.nextInt();

System.out.println("enter the subject" +(i+1) +"'s credits");

credits[i]=sc.nextInt();

}

}

float calculateSGPA(){

float sgpa;

int sumofcredits=0;

int numerator=0;

for(int i=0;i<credits.length;i++){

if(marks[i]>=90){

gradepoints[i]=10;

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

gradepoints[i]=9;

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

gradepoints[i]=8;

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

gradepoints[i]=7;

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

gradepoints[i]=6;

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

gradepoints[i]=5;

}else{

gradepoints[i]=0;

}

sumofcredits += credits[i];

numerator +=(credits[i]\*gradepoints[i]);

}

sgpa=(float) (numerator/sumofcredits);

return sgpa;

}

public static void main(String args[]){

sgpa ob= new sgpa();

ob.entermarks();

float result=ob.calculateSGPA();

System.out.println("The SGPA of the student is " + result);

}

}

OUTPUT

