***WEEK 4***

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***Section-3D***

***USN-1BM19CS200***

Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

import java.util.Scanner;

class Student

{

String name;

String usn;

int marks[] = new int[5];

int credits[] = new int[5];

int i,n;

int grade=0;

double total=0;

void get\_data()

{

Scanner in = new Scanner(System.in);

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

name = in.next();

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

usn = in.next();

System.out.println("Enter the no. of subjects:");

n=in.nextInt();

System.out.println("Enter Subject credits and subject marks:");

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

{

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

credits[i] = in.nextInt();

System.out.println("Marks in subject"+(i+1)+":");

marks[i] = in.nextInt();

}

}

void calculate\_sgpa()

{

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

{

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

grade=10;

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

grade=9;

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

grade=8;

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

grade=7;

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

grade=6;

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

grade=5;

else if(marks[i]>=0 && marks[i]<=40)

grade=0;

else

System.out.println("Invalid marks entered");

total=total+(grade\*credits[i]);

}

total=total/20;

System.out.println("Sgpa="+total);

}

void stud\_details()

{

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

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

System.out.println("Marks & Credits of all subjects:");

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

{

System.out.println("subject:"+(i+1)+":");

System.out.println("Marks:"+marks[i]);

System.out.println("Credits:"+credits[i]);

}

calculate\_sgpa();

}

public static void main(String args[])

{

Student s = new Student();

s.get\_data();

s.calculate\_sgpa();

s.stud\_details();

}

}

OUTPUT



