

/* Develop a java program to create a class Student with members usn , name an array of credits and array of marks include methods to accept and display details and a method to calculate sgpa of a student. */

```
import java.util.Scanner;

class Student{

int n;

String usn;

String name;

int[] marks;

int[] credits;

void calculate(){

Scanner sc=new Scanner(System.in);

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

name=sc.nextLine();

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

usn=sc.nextLine();

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

n=sc.nextInt();

marks=new int[n+1];

credits=new int[n+1];

for(int i=1;i<=n;i++){

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

marks[i]=sc.nextInt();

credits[i]=sc.nextInt();
```

```
}

}

void display(float sgpa){

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

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

System.out.println("Sgpa: "+sgpa);

}

float sgpa(){

int result=0;

int sum=0;

for(int i=1;i<=n;i++){

result+=grade(marks[i])*credits[i];

sum+=credits[i];

}

return (float) result/sum;

}

int grade(int marks){

if (marks>=90) return 10;

else if (marks>=80) return 9;

else if (marks>=70) return 8;

else if (marks>=60) return 7;

else if (marks>=50) return 6;

else if (marks>=40) return 5;

else return 0;

}
```

```

}

public class Sgpa{
    public static void main(String[] args){
        Student s1=new Student();
        s1.calculate();
        float r=s1.sgpa();
        s1.display(r);
    }
}

```

OUTPUT:-

```

PS C:\Users\88min\OneDrive\Documents\00JAVA> & 'C:\Program Files\Java\jre-1.8\bin\java.exe' '-cp' 'C:\Users\88min\AppData\Roaming\Code\User\workspaceStorage\4adb2a2142c21b587a630072dbc95c75\redhat.java\jdt_ws\00JAVA_ad619349\bin' 'Sgpa'
● Enter student name:
NINAD
Enter student usn:
1M24CS181
Enter the number of subjects:
4
Enter subject 1 marks and credits:
98
4
Enter subject 2 marks and credits:
85
3
Enter subject 3 marks and credits:
76
1
Enter subject 4 marks and credits:
92
2
Student name: NINAD
usn: 1M24CS181
Sgpa: 9.5
○ PS C:\Users\88min\OneDrive\Documents\00JAVA>

```

CHAT

Ask about your code

AI responses may be inaccurate.

Generate Agent Instructions to onboard AI onto your codebase.

Add context (#), extensions (@), commands (/)

Ask

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