

/* 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\88nin\OneDrive\Documents\OOJAWA> & 'C:\Program Files\Java\jre-1.8\bin\java.exe' '-cp' 'C:\Users\88nin\AppData\Roaming\Code\User\workspaceStorage\4adb2a2142c21b587a630072dbc95c75\redhat.jav
a\jdt_ws\OOJAWA_ad619349\bin' 'Sgpa'
Enter student name:
NITWAD
Enter student usn:
1WZ4CS181
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: NITWAD
usn: 1WZ4CS181
Sgpa: 9.5
PS C:\Users\88nin\OneDrive\Documents\OOJAWA>

```

CHAT

ASK about your code

AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.

Sgpa.java +

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

Ask

Ln 32, Col 14 Spaces: 4 UTF-8 CRLF Java Signed out Go Live Prettier