

```

import java.util.*;

class tstudent{
    Scanner in= new Scanner(System.in);
    String name,USN;
    int n,credits[],marks[];
    void inputs(){
        System.out.println("Enter name, USN and number of subjects");
        name=in.nextLine();
        USN=in.nextLine();
        n=in.nextInt();
        credits=new int[n];
        marks=new int[n];
        for (int i=0;i<n;i++){
            System.out.println("Enter marks and credits in subject "+(i+1));
            marks[i]=in.nextInt();
            credits[i]=in.nextInt();
        }
    }
    int grade(int x){
        if (x>=90 && x<=100)
            return 10;
        else if (x>=80 && x<90)
            return 9;
        else if (x>=70 && x<80)
            return 8;
        else if (x>=60 && x<70)
            return 7;
        else if (x>=50 && x<60)
            return 6;
        else if (x>=40 && x<50)
            return 5;
        else
            return 0;
    }
    void disp(float m){
        System.out.println("SGPA: "+m);
    }
}

public class Student{
    public static void main(String args[])
    {
        tstudent ob=new tstudent();
        float sumc=0,sum=0;
        ob.inputs();
        for (int i=0;i<ob.n;i++){
            sumc+=ob.credits[i];
            sum+=ob.grade(ob.marks[i])*ob.credits[i];
        }
        ob.disp(sum/sumc);
    }
}

```

PROBLEMS

7

OUTPUT

DEBUG CONSOLE

TERMINAL

Windows PowerShell

Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell <https://aka.ms/powershell>

PS D:\Prg data&gt; cd "d:\Prg data\Java\003 Lab\Sample\

Enter name, USN and number of subjects

Nishant

1BM21FG088

5

Enter marks and credits in subject 1

78

5

Enter marks and credits in subject 2

88

4

Enter marks and credits in subject 3

94

4

Enter marks and credits in subject 4

67

3

Enter marks and credits in subject 5

70

2

SGPA: 8.5

PS D:\Prg data\Java\003 Lab\Sample&gt; █