

```

import java.util.Scanner;
class Student{
    private String usn,name;
    private int credits[],marks[];
    void getDetails()
    {
        System.out.println("Enter name : ");
        Scanner scr = new Scanner(System.in);
        name = scr.next();
        System.out.println("Enter usn : ");
        usn = scr.next();
        System.out.println("Enter number of subjects : ");
        int n = scr.nextInt();
        credits = new int[n];
        marks = new int[n];
        System.out.println("Enter credits : ");
        for(int i =0;i<n;i++)
            credits[i]=scr.nextInt();

        System.out.println("Enter marks : ");
        for(int i =0;i<n;i++)
            marks[i]=scr.nextInt();
    }

    void SGPA()
    {
        float sum=0.0f,sgpa;
        int tcred=0,grades[];
        grades = new int[marks.length];
        for(int i =0;i<marks.length;i++)
        {
            if(marks[i]>=90)
                grades[i]=10;
            else if(marks[i]>=80)
                grades[i]=9;
            else if(marks[i]>=70)
                grades[i]=8;
            else if(marks[i]>=60)
                grades[i]=7;
            else if(marks[i]>=50)
                grades[i]=6;
            else if(marks[i]>=40)
                grades[i]=4;
            else
                grades[i]=0;
        }
        for(int i = 0;i<credits.length;i++)
        {
            sum+=grades[i]*credits[i];
            tcred+=credits[i];
        }
        sgpa = sum/(tcred);
        System.out.println("SGPA : "+sgpa);
    }

    void printDetails()
    {
        System.out.println("Details : \nName : "+name+"\nusn : "+usn+"\nMarks : ");
        for(int i =0;i<marks.length;i++)
        {
            System.out.println(marks[i]);
        }
    }
}

```

```
}  
  
public class studentm {  
    public static void main(String args[])  
    {  
        Student s1= new Student();  
        s1.getDetails();  
        s1.printDetails();  
        s1.SGPA();  
    }  
}
```

OUTPUT :

```
Enter name :  
Naman  
Enter usn :  
1BM19CS093  
Enter number of subjects :  
5  
Enter credits :  
5 5 4 3 3  
Enter marks :  
100 100 98 97 92  
Details :  
Name : Naman  
usn : 1BM19CS093  
Marks :  
100  
100  
98  
97  
92  
SGPA : 10.0
```