

```
import java.util.Scanner;
class Student{

    int i,n,res1=0,res2=0;
    double res;
    String usn;
    String name;
    int credits[];
    double marks[];
    int gp[];

    void getdata(){
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of subjects");
        n=sc.nextInt();
        credits=new int[n];
        marks=new double[n];
        gp=new int[n];
        System.out.println("Enter your usn no:");
        usn=sc.next();
        System.out.println("Enter your name:");
        name=sc.next();
        for(i=0;i<n;i++){
            System.out.println("Enter your credits for subject:");
            credits[i]=sc.nextInt();
            System.out.println("Enter your marks out of 100 in subject:");
            marks[i]=sc.nextDouble();
        }

    }

    void printdata(){
        System.out.println("Student details:");
        System.out.println("USN:"+usn);
        System.out.println("Name:"+name);
        System.out.println("Credits:");
        for(i=0;i<n;i++){
            System.out.println(credits[i]);
        }
        System.out.println("Marks:");
        for(i=0;i<n;i++){
            System.out.println(marks[i]);
        }
        System.out.println("GP:");
        for(i=0;i<n;i++){
            System.out.println(gp[i]);
        }
    }
}
```



```

}
void printdata(){
    System.out.println("Student details:");
    System.out.println("USN:"+usn);
    System.out.println("Name:"+name);
    for(i=0;i<n;i++){
        System.out.println("your credits for subject:"+credits[i]);
        System.out.println("your marks out of 100 in subject:"+marks[i]);
    }
}
void sgpa(){
    for(i=0;i<n;i++){
        if(marks[i]<=100 && marks[i]>=90)
            gp[i]=10;
        else if(marks[i]>=80)
            gp[i]=9;
        else if(marks[i]>=70)
            gp[i]=8;
        else if(marks[i]>=60)
            gp[i]=7;
        else if(marks[i]>=50)
            gp[i]=6;
        else if(marks[i]>=40)
            gp[i]=4;
        else if(marks[i]<40)
            gp[i]=0;
    }
    for(i=0;i<n;i++)
        res1+=credits[i];
    for(i=0;i<n;i++){
        res2+=(credits[i]*gp[i]);
    }
}

```

```

        else if(marks[i]>=80)
            gp[i]=9;
        else if(marks[i]>=70)
            gp[i]=8;
        else if(marks[i]>=60)
            gp[i]=7;
        else if(marks[i]>=50)
            gp[i]=6;
        else if(marks[i]>=40)
            gp[i]=4;
        else if(marks[i]<40)
            gp[i]=0;
    }
    for(i=0;i<n;i++)
        res1+=credits[i];
    for(i=0;i<n;i++){
        res2+=(credits[i]*gp[i]);
    }
    res=(double)(res2/res1);
    System.out.println("SGPA:"+res);
}
}
class Testj{

    public static void main(String[] args) {
        Student stu=new Student();
        stu.getdata();
        stu.printdata();
        stu.sgpa();
    }

}

```

```
C:\Users\Aman Sinha\Desktop\ooj>javac ooj2.java
```

```
C:\Users\Aman Sinha\Desktop\ooj>java Main
```

```
Enter USN of the student
```

```
1BM19CS22
```

```
Enter Name of the student
```

```
KUMAR
```

```
Enter no of subjects
```

```
5
```

```
Enter details of the subjects:
```

```
Enter credits allotted to the subject 1
```

```
4
```

```
Enter marks in the subject 1
```

```
56
```

```
Enter credits allotted to the subject 2
```

```
5
```

```
Enter marks in the subject 2
```

```
89
```

```
Enter credits allotted to the subject 3
```

```
4
```

```
Enter marks in the subject 3
```

```
78
```

```
Enter credits allotted to the subject 4
```

```
3
```

```
Enter marks in the subject 4
```

```
55
```

```
Enter credits allotted to the subject 5
```

```
4
```

```
Enter marks in the subject 5
```

```
80
```

```
Details of the Student
```

```
Name :KUMAR
```

```
USN: 1BM19CS22
```

```
SGPA of student 7.75
```

```
C:\Users\Aman Sinha\Desktop\ooj>
```



Type here to search



ENG

16:29

06-10-2020

