

```
import java.util.Scanner;
class Std{
    String usn;
    String name;
    int credits[] = new int[5];
    int marks[] = new int[5];

    void accept(String u , String n , int m[] , int c[])
    {
        this.usn = u;
        this.name = n;
        this.credits = c;
        this.marks = m;
    }
    float calc(){
        int grade[]= new int[5];
        int sum=0;
        int sumc=0;
        for(int k =0;k<5;k++){
            if(marks[k]>=90 && marks[k]<=100)
                grade[k]=10;
            else if(marks[k]>=80 && marks[k]<90)
                grade[k]=9;
            else if(marks[k]>=70 && marks[k]<80)
                grade[k]=8;
            else if(marks[k]>=65 && marks[k]<70)
                grade[k]=7;
            else if(marks[k]>=60 && marks[k]<65)
                grade[k]=6;
            else if(marks[k]>=50 && marks[k]<60)
                grade[k]=5;
            else
                grade[k]=0;
            sum+=grade[k]*credits[k];
            sumc+=credits[k];
        }
        float sgpa = (float)sum/sumc;
        return sgpa;
    }
    void display(){
        System.out.println("The usn of student is :");
        System.out.println(this.usn);
        System.out.println("The name of student is:");
        System.out.println(this.name);
    }
}
```

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    }
    public static void main(String[] args) {
        Scanner s= new Scanner(System.in);
        Std s1= new Std();
        System.out.println("Enter the usn of the student :");
        String u = s.next();
        System.out.println("Enter the name of the student:");
        String n=s.next();
        int m[]=new int[5];
        int c[]= new int[5];
        for(int j=0;j<5;j++){
            System.out.println("Enter the marks of subject "+(j+1)+":");
            m[j]=s.nextInt();
            System.out.println("Enter the credits of subject"+(j+1)+":");
            c[j]=s.nextInt();
        }
        s1.accept(u,n,m,c);
        float sgp= s1.calc();
        s1.display();
        System.out.println("The sgpa of student is :");
        System.out.println(sgp);
    }
}

```

Output

```
C:\1wn24cs222>java Std
Enter the usn of the student :
1wn24cs455
Enter the name of the student:
Rahul
Enter the marks of subject 1:
78
Enter the credits of subject1:
4
Enter the marks of subject 2:
89
Enter the credits of subject2:
4
Enter the marks of subject 3:
87
Enter the credits of subject3:
3
Enter the marks of subject 4:
88
Enter the credits of subject4:
3
Enter the marks of subject 5:
90
Enter the credits of subject5:
3
The usn of student is :
1wn24cs455
The name of student is:
Rahul
The sgpa of student is :
8.941176
```

```
C:\1wn24cs222>java Std
Enter the usn of the student :
1wn24cs433
Enter the name of the student:
Anuj
Enter the marks of subject 1:
66
Enter the credits of subject1:
5
Enter the marks of subject 2:
77
Enter the credits of subject2:
4
Enter the marks of subject 3:
88
Enter the credits of subject3:
3
Enter the marks of subject 4:
67
Enter the credits of subject4:
3
Enter the marks of subject 5:
55
Enter the credits of subject5:
4
The usn of student is :
1wn24cs433
The name of student is:
Anuj
The sgpa of student is :
7.105263
```