

```
        else if(tot>=50)
            c=6;
        else if(tot>=40)
            c=4;
        else
            c=0;
        total=total+(c*credits[i]);
        cred=cred+credits[i];
    }
    total=total/cred;
    return(total);
}

void display(int n,double total)
{
    System.out.println("name of student : "+name);
    System.out.println("usn of student : "+usn);
    System.out.println("marks of student along with credits of course");
    for(int i=0;i<n;i++)
    {
        System.out.println(marks[i]+"    "+credits[i]);
    }
    System.out.println("sgpa of student : "+total);
}

public static void main(String args[])
{
    Scanner sc=new Scanner(System.in);
    Student obj=new Student();
    System.out.println("enter no of course ");
    int n=sc.nextInt();
    credits=new int[n];
    marks=new double[n];
    obj.input(n);
    double total=obj.calculate(n);
    obj.display(n,total);
}
}
```



```
C:\Users\Pankaj Gupta\Desktop\JAVA>javac Student.java
```

```
C:\Users\Pankaj Gupta\Desktop\JAVA>java Student
```

```
enter no of course
```

```
5
```

```
enter usn and name
```

```
110
```

```
Pankaj
```

```
enter marks along with credits
```

```
87
```

```
5
```

```
enter marks along with credits
```

```
87
```

```
4
```

```
enter marks along with credits
```

```
86
```

```
4
```

```
enter marks along with credits
```

```
85
```

```
4
```

```
enter marks along with credits
```

```
84
```

```
3
```

```
name of student : Pankaj
```

```
usn of student : 110
```

```
marks of student along with credits of course
```

```
87.0 5
```

```
87.0 4
```

```
86.0 4
```

```
85.0 4
```

```
84.0 3
```

```
sgpa of student : 9.0
```

```
C:\Users\Pankaj Gupta\Desktop\JAVA>
```

```
}
```

```
<
```



```
import java.util.*;
class Student
{
    String usn,name;
    static int credits[];
    static double marks[];
    void input(int n)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter usn and name ");
        usn=sc.nextLine();
        name=sc.nextLine();

        for(int i=0;i<n;i++)
        {
            System.out.println("enter marks along with credits");
            marks[i]=sc.nextDouble();
            credits[i]=sc.nextInt();
            System.out.println();
        }
    }
    double calculate(int n)
    {
        int c,cred=0;
        double tot,total=0.0;
        for(int i=0;i<n;i++)
        {
            tot=marks[i];
            if(tot>=90)
                c=10;
            else if(tot>=80)
                c=9;
            else if(tot>=70)
                c=8;
            else if(tot>=60)
                c=7;
```