

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

```
    private int usn;
```

```
    private String name;
```

```
    private int cr[];
```

```
    private int mar[];
```

```
    private int i, tem, temp2 = 0;
```

```
    void getDetails(){
```

```
        System.out.println("Enter student Details");
```

```
        Scanner s1 = new Scanner(System.in);
```

```
        usn = s1.nextInt();
```

```
        name = s1.next();
```

```
        int i;
```

```
        int n = s1.nextInt();
```

```
        cr = new int[n];
```

```
        for(i=0; i<n; i++){
```

```
            System.out.println("Enter credits");
```

```
            cr[i] = s1.nextInt();
```

```
            temp2 = temp2 + cr[i];
```

```
        }
```

```
        mar = new int[n];
```

```
        for(i=0; i<n; i++){
```

```
            System.out.println("Enter 5 subject marks");
```

```
            mar[i] = s1.nextInt();
```

```
            if(mar[i] >= 90 && mar[i] <= 100){
```

```
                temp = 10;
```

```
            }
```

```

else if (mar[i] >= 70 && mar[i] < 90) {
    temp = 9;
}
else if (mar[i] >= 50 && mar[i] < 70) {
    temp = 8;
}
else {
    temp = 7;
}
temp1 = temp1 + temp * cr[i];
}
}

```

```

void printDetails() {
    System.out.println("usrn:" + usn);
    System.out.println("name:" + name);
    System.out.println("Total credits:" + temp2);
    System.out.println("sgpa:" + temp1/20);
}
}

```

```

class StudentMain {
    public static void main (String es[]) {
        Student s1 = new Student ();
        s1.getDetails();
        s1.printDetails();
    }
}

```

## Algorithm

- i] create objects usn, name, array of credits & marks
- ii] Get input of student Details
- iii]. Calculate total credits and grades on basis of marks using if else.

if (mar[i]  $\geq$  90 && mar[i]  $\leq$  100)

grade = 10;

else if (mar[i]  $\geq$  70 && mar[i]  $<$  90)

grade = 9;

else if (mar[i]  $\geq$  50 && mar[i]  $<$  70)

grade = 8;

else

grade = 7;

- iv]. ~~Calculate~~ Calculate total by multiply multiplying credits of each subject with marks

grade1 = grade + grade \* cr[i];

- v]. Print the details

usn: 83

name: manoj;

total credits: 20

seppa: grade 1/20;

- vi]. Create class Student Main and get details of students by calling function.

```
1 import java.util.Scanner;
2 class Student{
3     private int usn;
4     private String name;
5     private int cr[];
6     private int mar[];
7     private int i;
8     private int temp,temp2=0;
9     private float temp1=0;
10
11 void getDetails(){
12     System.out.println("Enter student details");
13     Scanner s1=new Scanner(System.in);
14     usn=s1.nextInt();
15     name=s1.next();
16     int i;
17     int n=s1.nextInt();
18     cr=new int[n];
19     for(i=0;i<n;i++){
20         System.out.println("Enter credits");
21         cr[i]=s1.nextInt();
22         temp2=temp2+cr[i];
23     }
24
25     mar=new int[n];
26     for(i=0;i<n;i++){
27         System.out.println("Enter 5 subject marks");
28         mar[i]=s1.nextInt();
29         if(mar[i]>=90 && mar[i]<=100){
30             temp=10;
31         }else if(mar[i]>=70 && mar[i]<90){
32             temp=8;
33         }else if(mar[i]>=50 && mar[i]<70){
34             temp=6;
35         }else{
36             temp=7;
37         }
38         temp1=temp1+temp*cr[i];

```

```

33         }else if (mar[i]>=50 && mar[i]<70){
34             temp=8;
35         }else{
36             temp=7;
37         }
38         temp1=temp1+temp*cr[i];
39     }
40 }
41 }
42 }
43 }
44 void printDetails(){
45     System.out.println("usn:"+usn);
46     System.out.println("name:"+name);
47     System.out.println("Total credits:"+temp2);
48     System.out.println("sgpa:"+temp1/20);
49 }
50 }
51 class StudentMain{
52     public static void main(String ss[]){
53         Student s1=new Student();
54         s1.getDetails();
55         s1.printDetails();
56     }
57 }
58 }
59 }
60 }
61 }

```



Microsoft Windows [Version 10.0.18363.1082]  
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C:\Users\Manoj H A>cd Documents

C:\Users\Manoj H A\Documents>javac Student.java

C:\Users\Manoj H A\Documents>java StudentMain

Enter student details

83

manoj

5

Enter credits

5

Enter credits

4

Enter credits

4

Enter credits

4

Enter credits

3

Enter 5 subject marks

95

Enter 5 subject marks

85

Enter 5 subject marks

75

Enter 5 subject marks

65

Enter 5 subject marks

45

usn:83

name:manoj

Total credits:20

cgpa:8.75

C:\Users\Manoj H A\Documents>