

```
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.

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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>