

```
import java.util.*;
```

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USN: IBM19CS174

```
class student {
```

```
    String name, usn;
```

```
    double credits[] = new double[5];
```

```
    double marks[] = new double[5];
```

```
    double a[] = new double[5];
```

```
    double total = 0, tc = 0, sgpa = 0, tmc = 0;
```

```
    void getDetails () {
```

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

```
        System.out.println("Enter name and usn");
```

```
        name = in.nextLine();
```

```
        usn = in.nextLine();
```

```
        for(int i=0; i<5; i++) {
```

```
            System.out.println("Enter marks and credits of subject "+(i+1));
```

```
            marks[i] = in.nextDouble();
```

```
            credits[i] = in.nextDouble();
```

```
        }
```

```
    }
```

```
    void displayDetails () {
```

```
        System.out.println("Name : " + name);
```

```
        System.out.println("USN : " + usn);
```

```
        for(int j=0; j<5; j++) {
```

```
            total += marks[j];
```

```
        }
```

```
        System.out.println("Total marks: " + total);
```

```
    }
```



```

void SGPA() {
    for (int j=0 ; j<5 ; j++) {
        if (marks[j] >= 90)
            a[j] = 10.0;
        else if (marks[j] >= 80 && (marks[j] < 90))
            a[j] = 9.0;
        else if (marks[j] >= 70 && (marks[j] < 80))
            a[j] = 8.0;
        else if (marks[j] >= 60 && (marks[j] < 70))
            a[j] = 7.0;
        else if (marks[j] >= 50 && (marks[j] < 60))
            a[j] = 6.0;
        else
            a[j] = 0.0;
    }
}

```

```

for (int n=0 ; n<5 ; n++) {
    tc += credits[n];
    tmc += (credits[n] * a[n]);
}

```

```

sgpa = (tmc / tc);

```

```

System.out.println("SGPA : " + sgpa);
}
}

```

```

public class studentSgpa {

```

```

    public static void main (String [] args) {

```

```

        Student s1 = new student ();

```

```

        s1.getDetails ();

```

```

        s1.displayDetails ();

```

```

        s1.SGPA ();

```

```

    }

```

```

}

```