```java
import java.util.Scanner;
public class Student_details {
    public static void main (String [] args) {
        student S1 = new student();
        S1 = getDetails();
        S1 = print Details();
        S1 = get SGPA();
    }
}

class student {
    int usn;
    String name;
    Scanner sc = new Scanner (System.in);
    double sgpa;
    int n;
    int credits[];
    int marks[];
    void getDetails() {
        System.out.println (" Enter no. of subjects");
        n = sc.nextInt();
        credits = new int [n];
        marks = new int [n];
        System.out.println (" Enter USN");
        usn = sc.nextInt();
        System.out.println (" Enter name");
        name = sc.next();
        for (int i=0; i < n; i++) {
            System.out.println (" Enter Subject credit");
            credits [i] = sc.nextInt();
            System.out.println (" Enter subject marks");
            marks [i] = sc.nextInt();
        }
    }
    void printDetails () {
        System.out.println ("usn " + usn);
        System.out.println ("name " + name);
        for (int i=0; i < n; i++) {
            System.out.println (" credits of the subjects " +credits[i]);
            System.out.println (" marks " + marks [i]);
        }
    }
    void getSgpa() {
        double sum = 0, total = 0;
        for (int i=0; i < n; i++) {
            sum = sum + credits [i];
```

```java
if (marks[i] >= 90)
{
    total = total + (10 * credits[i]);
}
else if (marks[i] >= 80)
    total = total + (9 * credits[i]);
else if (marks[i] >= 70)
    total = total + (8 * credits[i]);
else if (marks[i] >= 60)
    total = total + (7 * credits[i]);
else if (marks[i] >= 40 && marks[i] <= 60)
    total = total + (5 * credits[i]);

else
    total = total + (0 * credits[i]);
}
sgpa = total / sum;
System.out.println("sgpa = " + sgpa);
}
}
```