```java
import java.util.Scanner;
class Student {
    String usn;
    String name;
    int credits[] = new int[5];
    int marks[] = new int[5];

    void getStudentDetails() {

        Scanner inp = new Scanner(System.in);
        System.out.println("Enter the asked details of student ");
        System.out.print("Name : ");
        name = inp.nextLine();
        System.out.print("USN : ");
        usn = inp.next();

        System.out.println("Enter marks and credits of : ");
        for(int k=0;k<5;k++) {
            System.out.print("Subject  "+ (k+1) +" : ");
            marks[k] = inp.nextInt();
            credits[k] = inp.nextInt();

        }
    }

    void printStudentDetails() {
        System.out.println("Details of the student are: ");
        System.out.println("Name : "+name);
        System.out.println("USN : "+usn);
        System.out.println("Marks Scored : ");
        for(int i=0;i<5;i++){
            System.out.println("Subject "+(i+1) + " : " +marks[i]);
        }
    }

    void sgpa_cal() {
        Scanner inp = new Scanner(System.in);
        int totalCredit=0;
        for(int i=0;i<5;i++) {
            totalCredit += credits[i];
        }
        int grdPnt[] = new int[5];
        int j=0;
        for(int k=0;k<5;k++)
        {
            if(marks[k]>=90) {
                grdPnt[j] = 10;
```

```java
            else if(marks[k]>=70) {
                grdPnt[j] = 8;
                j++;
            }
            else if(marks[k]>=60) {
                grdPnt[j] = 7;
                j++;
            }
            else if(marks[k]>=50) {
                grdPnt[j] = 6;
                j++;
            }
            else if(marks[k]>=40) {
                grdPnt[j] = 5;
                j++;
            }

            else {
                grdPnt[j] = 4;
                j++;
            }
        }

        int totalMarks = 0;
        for(int i=0;i<5;i++) {
            totalMarks = totalMarks + grdPnt[i]*credits[i];
        }

        double sgpa = (double)totalMarks/totalCredit;
        System.out.println("SGPA of "+name+" : "+sgpa);
    }
}

public class program2 {
    public static void main(String args[]) {
        Scanner inp = new Scanner(System.in);
        Student detail = new Student();
        //get details
        detail.getStudentDetails();
        //print details
        detail.printStudentDetails();
        //cal sgpa
        detail.sgpa_cal();

    }
}
```

```
[dhruvdubey@Dhruvs-MacBook-Air JavaLab % java program2
Enter the asked details of student
Name : Dhruv Dubey
USN : 1BM19CS082
Enter marks and credits of :
Subject  1 : 67 5
Subject  2 : 88 4
Subject  3 : 74 4
Subject  4 : 91 4
Subject  5 : 56 3
Details of the student are:
Name : Dhruv Dubey
USN : 1BM19CS082
Marks Scored :
Subject 1 : 67
Subject 2 : 88
Subject 3 : 74
Subject 4 : 91
Subject 5 : 56
SGPA of Dhruv Dubey : 8.05
dhruvdubey@Dhruvs-MacBook-Air JavaLab %
```