

```
import java.util.Scanner;

class Student
{
    private String USN;
    private String name;
    private int credits[]=new int[5];
    private double marks[]=new double[5];
    private double total_gp=0,sgpa;
    private int total_credits=0;
    private int gp=0;

    Scanner ss=new Scanner(System.in);

    void getDetails()
    {
        System.out.println("Enter the Student Details:");
        System.out.println("\nUSN:");
        USN=ss.next();
        System.out.println("\nName:");
        name=ss.next();
        for(int i=0;i<5;i++)
        {
            System.out.printf("\nMarks and Credits of Subject %d :",i+1);
            marks[i]=ss.nextDouble();
            credits[i]=ss.nextInt();
        }
    }

    void printDetails()
    {
        System.out.printf("\nThe Student Details are:");
        System.out.printf("\nUSN: %s",USN);
        System.out.printf("\nName: %s",name);
        for(int i=0;i<5;i++)
        {
            System.out.printf("\nSubject %d Marks: %.2f",i+1,marks[i]);
            System.out.printf("\nSubject %d Credits: %d",i+1,credits[i]);
        }
    }
}
```

```

void getSGPA()
{
    for(int i=0;i<5;i++)
    {
        total_credits+=credits[i];
        if(marks[i]==100.0)
            gp=(int)marks[i]/10;
        else
            gp=(int)((marks[i]/10)+1);
        total_gp+=gp*credits[i];
    }
    sgpa=total_gp/total_credits;
    System.out.printf("\nThe SGPA of the student is: %.2f",sgpa);
}
}

```

```

public class Student_Details{

```

Run | Debug

```

public static void main(String args[])
{
    Student s1=new Student();
    s1.getDetails();
    s1.printDetails();
    s1.getSGPA();
}
}

```

Enter the Student Details:

USN:

1bm19cs072

Name:

Khushil

Marks and Credits of Subject 1 :80 4

Marks and Credits of Subject 2 :77 3

Marks and Credits of Subject 3 :68 3

Marks and Credits of Subject 4 :83 3

Marks and Credits of Subject 5 :92 2

The Student Details are:

USN: 1bm19cs072

Name: Khushil

Subject 1 Marks: 80.00

Subject 1 Credits: 4

Subject 2 Marks: 77.00

Subject 2 Credits: 3

Subject 3 Marks: 68.00

Subject 3 Credits: 3

Subject 4 Marks: 83.00

Subject 4 Credits: 3

Subject 5 Marks: 92.00

Subject 5 Credits: 2

The SGPA of the student is: 8.53