```
Main.java >  Student >  sgpaClac()
     import java.util.Scanner;
     class Student{
          private String usn;
         private String name:
         private int[] credits = new int[20];
         private int[] marks = new int[20];
         private int n;
         void getDetails(){
             Scanner sc = new Scanner(System.in);
             System.out.println("Enter no of subjects:");
             n = sc.nextInt();
             System.out.println("Enter Student usn");
             usn = sc.next();
             System.out.println("Enter Student name");
             name = sc.next();
              for(int i = 0; i < n; i++){
                 System.out.println("Enter credits followed by marks for subject " + (i+1) + ":");
                 credits[i] = sc.nextInt();
                 marks[i] = sc.nextInt();
          void printDetails(){
             System.out.println("Student details are as follows:");
             System.out.println("Name: " + name + "\tusn: " + usn);
               for(int i = 0; i < n; i++){
                  System.out.println("Sub" + (i+1) + " Marks is: " + marks[i] + "\tCredit is: " + credits[i]);
```

```
Main.java > 4 Student >  sgpaClac()
          void sgpaClac(){
             double sgpa;
             int[] gpcr = new int[n];
             int credSum = 0, gp, sgpcr = 0;
              for(int i = 0; i < n; i++){
                  credSum += credits[i];
                  if (marks[i] >= 90){
                      gp = 10;
                  else if(marks[i] >= 80){
                      gp = 9;
                  else if(marks[i] >= 70){
                      gp = 8;
                  else if(marks[i] >= 60){
                      gp = 7;
                  else if(marks[i] >= 50){
                      gp = 5;
                  else if(marks[i] >= 40){
                      gp = 4;
                  else{
                      gp = 0;
                  gpcr[i] = gp * credits[i];
                  sgpcr += gpcr[i];
```

```
Main.java > \( \frac{1}{12} \) Main > \( \frac{1}{12} \) main(String[])
                    else it(marks[i] >= 40){
                        gp = 4;
                    else{
                        gp = 0;
                   gpcr[i] = gp * credits[i];
                    sgpcr += gpcr[i];
               sgpa = sgpcr / (credSum + 0.0);
               System.out.println("Student's sgpa is: " + sgpa);
      public class Main {
           Run | Debug
           public static void main(String[] args){
               Student s1 = new Student();
               s1.getDetails();
               s1.printDetails();
               s1.sgpaClac();
```

## Command Prompt

```
E:\jdk8\bin\ooj lab>javac Main.java
E:\jdk8\bin\ooj lab>java Main
Enter no of subjects:
Enter Student usn
1BM19CS104
Enter Student name
Niranjan
Enter credits followed by marks for subject 1:
Enter credits followed by marks for subject 2:
4 96
Enter credits followed by marks for subject 3:
5 83
Enter credits followed by marks for subject 4:
Enter credits followed by marks for subject 5:
4 94
Student details are as follows:
Name: Niranjan usn: 1BM19CS104
Sub1 Marks is: 98
                        Credit is: 3
Sub2 Marks is: 96
                       Credit is: 4
Sub3 Marks is: 83
                       Credit is: 5
Sub4 Marks is: 83
                       Credit is: 4
Sub5 Marks is: 94
                        Credit is: 4
Student's sgpa is: 9.55
E:\jdk8\bin\ooj lab>
```