LAB PROGRAM 2: 6/10/2020

```
C:\Windows\system32\cmd.exe

C:\Users\admin\Documents>java Main
Enter no of subjects:
5
Enter Student usn
1BM19CS074
Enter Student name
Sharat
Enter credits followed by marks for subject 1:
4
90
Enter credits followed by marks for subject 2:
4
85
Enter credits followed by marks for subject 3:
3
78
Enter credits followed by marks for subject 4:
5
95
Enter credits followed by marks for subject 5:
5
64
Student details are as follows:
Name: Sharat     usn: 1BM19CS074
Sub1 Marks is: 90        Credit is: 4
Sub2 Marks is: 85        Credit is: 4
Sub3 Marks is: 78        Credit is: 3
Sub4 Marks is: 95        Credit is: 5
Sub5 Marks is: 64        Credit is: 5
Student's sgpa is: 8.80952380952381
```

```java
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]);
        }
    }


    void sgpaClac(){
        double sgpa;
        int[] gpcr = new int[n];
        int credSum = 0, gp, sgpcr = 0;
        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];
        }
        sgpa = sgpcr / (credSum + 0.0);
        System.out.println("Student's sgpa is: " + sgpa);
    }
}


class Main{
    public static void main(String[] args){
        Student s1 = new Student();
```

```java
class Main{
    public static void main(String[] args){
        Student s1 = new Student();


        s1.getDetails();
        s1.printDetails();
        s1.sgpaClac();
    }
}
```