```
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();
   }
}
```


Signature.....

```
void printDetails(){
    System.out.println("Student details are as follows:");
    System.out.println("Name:"+name+"\t usn:"+usn);
   for(int i=0; i<n; i++){
     System.out.println("Sub"+(i+1)+"Mark is:"+marks[i]
       +"\t Credits is:"+credits[i]);
    }
}

void sgpaCalc(){
    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;
     }
```

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        else if ( marks [i] >= 60){
            gp = 7;
        }
        else if ( mark [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 sgpa is: " + sgpa);
  }
}
public class Main {
    public static void main (String [] args) {
        Student s1 = new Student();
        s1.getDetails();
        s1.printDetails();
        s1.sgpaCalc();
    }
}
```