CODE:

```java
import java.util.Scanner;

class Student
{
        private String usn;

        private String name;

        private int[] credits=new int[5];

        private int[] marks=new int[5];

        void getData()
        {
                Scanner s1=new Scanner(System.in);

                System.out.println("Enter student usn");

                usn=s1.next();

                System.out.println("Enter student name");

                name=s1.next();

                int i;

                for(i=0;i<5;i++)
                {
                System.out.println("Enter credits of subject"+(i+1));

                credits[i]=s1.nextInt();

                System.out.println("Enter marks of subject"+(i+1));

                marks[i]=s1.nextInt();

                }
        }

        float calculate()
```

```java
{
        int i=0,gpa;

        float total=0,td=0;

        for(i=0;i<5;i++)

        {       if(marks[i]>=90)

                        gpa=10;

                else if(marks[i]>=80)

                        gpa=9;

                else if(marks[i]>=70)

                        gpa=8;

                else if(marks[i]>=60)

                        gpa=7;

                else if(marks[i]>=50)

                        gpa=6;

                else if(marks[i]>=40)

                        gpa=5;

                else

                        gpa=3;

                total=total+credits[i]*gpa;

                td=td+credits[i];

        }

        return (total/td);

}

void display()

{

        System.out.println("USN :"+usn);
```

```java
            System.out.println("Name :"+name);

            System.out.println("Sgpa :"+calculate());

        }


}
public class StudentMain
{
        public static void main(String args[])
        {
                Student s=new Student();

                s.getData();

                s.display();

        }
}
```

OUTPUT:

```
Enter student usn
1BM19CS000
Enter student name
KARAN
Enter credits of subject1
5
Enter marks of subject1
80
Enter credits of subject2
4
Enter marks of subject2
89
Enter credits of subject3
3
Enter marks of subject3
90
Enter credits of subject4
2
Enter marks of subject4
60
Enter credits of subject5
1
Enter marks of subject5
80
USN :1BM19CS000
Name :KARAN
Sgpa :8.933333

C:\Users\misaf\Desktop\OOJ-LAB>
```