

```
import java.util.Scanner;
class student{
Scanner sc = new Scanner(System.in);
String USN;
String Name;
int credits[]=new int[3];
double marks[]=new double[3];
int point[]=new int[3];
float SGPA;
int totalCredits = 0;
void getStudentData()
{
System.out.println("Enter the student USN:");
USN = sc.nextLine();
System.out.println("Enter the student Name:");
Name= sc.nextLine();
for(int i=0;i<3;i++)
{
System.out.println("enter the credits of the subject"+(i+1)+" :");
credits[i] = sc.nextInt();
totalCredits+=credits[i];
System.out.println("enter the marks of the subject"+(i+1)+" :");
marks[i] = sc.nextDouble();
}
}
void showStudentData()
{
System.out.println(" Student USN:\n"+USN);
System.out.println(" Student Name\n:"+Name);
for(int i=0;i<3;i++)
{
System.out.println("subject"+(i+1)+ " credits:\n"+credits[i]+"marks:\n"+marks[i]);
}
System.out.println("SGPA of"+ Name +": "+ (float)(SGPA/totalCredits));
}
void calSgpa()
{
for(int i=0;i<3;i++)
{
if(marks[i]<0 || marks[i]>100)
{
System.out.print("marks are invalid");
return;
}
else if(marks[i]>=90)
{

```

```
Enter the student Name:
arnav
enter the credits of the subject1:
4
enter the marks of the subject1:
95
enter the credits of the subject2:
4
enter the marks of the subject2:
92
enter the credits of the subject3:
4
enter the marks of the subject3:
95
Student USN:
1bm19cs025
Student Name
:arnav
subject1credits:
4marks:
95.0
subject2credits:
4marks:
92.0
subject3credits:
4marks:
95.0
SGPA ofarnav:10.0

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```

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```
{
    point[i]=10;
}
else if(marks[i]>=80 && marks[i]<90)
{
    point[i]=9;
}
else if(marks[i]>=70 && marks[i]<80)
{
    point[i]=8;
}
else if(marks[i]>=60 && marks[i]<70)
{
    point[i]=7;
}
else if(marks[i]>=50 && marks[i]<60)
{
    point[i]=5;
}
else if(marks[i]>=40 && marks[i]<50)
{
    point[i]=4;
}
else
{
    point[i]=0;
}
SGPA+=(point[i]*credits[i]);
}
}
}
public class Stumain
{
    public static void main(String[] args)
    {
        student stu1 = new student();
        stu1.getStudentData();
        stu1.calSgpa();
        stu1.showStudentData();
    }
}
```

```
Enter the student Name:
arnav
enter the credits of the subject1:
4
enter the marks of the subject1:
95
enter the credits of the subject2:
4
enter the marks of the subject2:
92
enter the credits of the subject3:
4
enter the marks of the subject3:
95
Student USN:
1bm19cs025
Student Name
:arnav
subject1credits:
4marks:
95.0
subject2credits:
4marks:
92.0
subject3credits:
4marks:
95.0
SGPA ofarnav:10.0

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```

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