

```

import java.util.Scanner;

class Student
{
    String name;

    String usn;

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

    int i,n;

    int grade=0;

    double total=0;

    void get_details()
    {
        Scanner in = new Scanner(System.in);

        System.out.println("Enter Student Name:");
        name = in.next();

        System.out.println("Enter the USN:");
        usn = in.next();

        System.out.println("Enter the no. of subjects:");
        n=in.nextInt();

        System.out.println("Enter credits:");
        for(i=0;i<n;i++)
        {
            System.out.println("Credits for subject" +(i+1)+":");
            credits[i] = in.nextInt();
        }

        System.out.println("Enter marks:");
        for(i=0;i<n;i++)
        {
            System.out.println("Marks in subject" +(i+1)+":");
            marks[i] = in.nextInt();
        }
    }
}

```

```
}  
}
```

```
void calculate_sgpa()
```

```
{  
    for(i=0;i<n;i++)  
    {  
        if(marks[i]>=90 && marks[i]<=100)  
            grade=10;  
        else if(marks[i]>=80 && marks[i]<=90)  
            grade=9;  
        else if(marks[i]>=70 && marks[i]<=80)  
            grade=8;  
        else if(marks[i]>=60 && marks[i]<=70)  
            grade=7;  
        else if(marks[i]>=50 && marks[i]<=60)  
            grade=6;  
        else if(marks[i]>=40 && marks[i]<=50)  
            grade=5;  
        else if(marks[i]>=0 && marks[i]<=40)  
            grade=0;  
        else  
            System.out.println("Invalid marks entered");  
        total=total+(grade*credits[i]);  
    }  
  
    total=total/20;  
    System.out.println("Sgpa="+total);  
}
```

```
void student_information()
```

```
{  
    System.out.println("Name:"+name);  
    System.out.println("USN:"+usn);  
    System.out.println("Marks & Credits of all subjects:");  
    for(i=0;i<n;i++)  
    {  
        System.out.println("subject:"+(i+1)+":");  
        System.out.println("Marks:"+marks[i]);  
        System.out.println("Credits:"+credits[i]);  
    }  
    calculate_sgpa();  
}
```

```
public static void main(String args[])  
{  
    Student s = new Student();  
    s.get_details();  
    s.calculate_sgpa();  
    s.student_information();  
}  
}
```

```
Enter Name:
Anitej prasad
Enter USN:
1BM19CS194
Enter number of subjects:
5
Enter credits:
Credits for subject1:
3
Credits for subject2:
4
Credits for subject3:
3
Credits for subject4:
4
Credits for subject5:
2
Enter marks:
Marks in subject1:
75
Marks in subject2:
85
Marks in subject3:
87
Marks in subject4:
90
Marks in subject5:
95
Sgpa=7.35
Name:Anitej prasad
USN:1BM19CS194
Marks & Credits of all subjects:
subject:1:
Marks:75
Credits:3
subject:2:
Marks:85
Credits:4
subject:3:
Marks:87
Credits:3
subject:4:
Marks:90
Credits:4
subject:5:
Marks:95
Credits:2
Sgpa=7.717499999999999
c:\javafiles>
```