

LAB 2

Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

```
import java.util.*;

class student
{
    String usn,name;
    int credits[]=new int[5];
    float marks[]=new float[5];
    double sgpa;

    void input()
    {

        float tot=0,totcr=0;

        Scanner in= new Scanner(System.in);

        System.out.println("Enter USN,Name");

        usn=in.nextLine();
        name=in.nextLine();

        System.out.println("Enter Credits in all subjects");

        for(int i=0;i<5;i++)
            credits[i]=in.nextInt();

        System.out.println("Enter Marks in all subjects in same order as credits");

        for(int i=0;i<5;i++)
        {
            marks[i]=in.nextFloat();
```

```
}
```

```
}
```

```
void calcs GPA()
```

```
{
```

```
    int sum=0,totcr=0;
```

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

```
    {
```

```
        totcr+=credits[i];
```

```
        if(marks[i]>=89.5&&marks[i]<=100)
```

```
            sum+=10*credits[i];
```

```
        else if(marks[i]>=79.5&&marks[i]<89.5)
```

```
            sum+=9*credits[i];
```

```
        else if(marks[i]>=69.5&&marks[i]<79.5)
```

```
            sum+=8*credits[i];
```

```
        else if(marks[i]>=59.5&&marks[i]<69.5)
```

```
            sum+=7*credits[i];
```

```
        else if (marks[i]>=49.5&&marks[i]<59.5)
```

```
            sum+=6*credits[i];
```

```
        else if(marks[i]>=39.5&&marks[i]<49.5)
```

```
            sum+=4*credits[i];
```

```
        else
```

```
            sum+=0*credits[i];
```

```
    }
```

```
    sgpa=sum/(double)totcr;
```

```
}
```

```
void display()
```

```

{

    System.out.println("\nUSN: "+usn+"\nName: "+name+"\nSGPA: "+sgpa);

}

}

class studet

{

    public static void main(String[] args)

    {

        student s=new student();

        s.input();

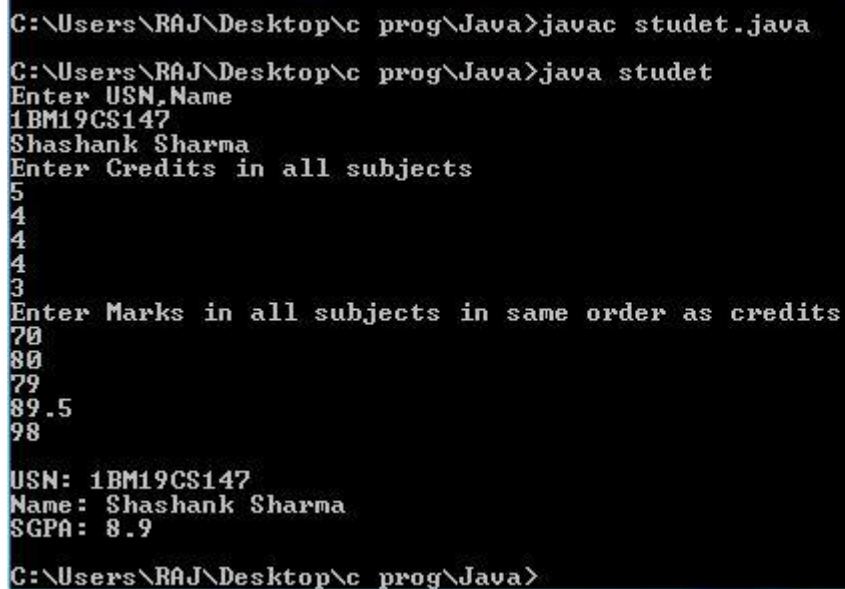
        s.calcs GPA();

        s.display();

    }

}

```



```

C:\Users\RAJ\Desktop\c prog\Java>javac studet.java
C:\Users\RAJ\Desktop\c prog\Java>java studet
Enter USN,Name
1BM19CS147
Shashank Sharma
Enter Credits in all subjects
5
4
4
4
3
Enter Marks in all subjects in same order as credits
70
80
79
89.5
98

USN: 1BM19CS147
Name: Shashank Sharma
SGPA: 8.9
C:\Users\RAJ\Desktop\c prog\Java>

```