

```
import java.util.Scanner;
```

```
class Student
```

```
{
```

```
    Scanner sc = new Scanner(System.in);
```

```
    String USN;
```

```
    String Name;
```

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

```
    float marks[] = new float[5];
```

```
    int points[] = new int[5];
```

```
    float GPA;
```

```
    int totCredits = 0;
```

```
    void getDetails()
```

```
{
```

```
        System.out.println("USN");
```

```
        USN = sc.nextLine();
```

```
        System.out.println("Student name");
```

```
        Name = sc.nextLine();
```

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

```
{
```

```
            System.out.println("Enter credits  
for subject " + (i + 1));
```

```
            credits[i] = sc.nextInt();
```

MESID
RAZZ

```

    totCredits += credits[i];
    System.out.println("Enter Marks for  
Subject " + (i+1)).
    marks[i] = sc.nextFloat();
}
}

```

```

void info showDetails ()
{

```

```

    System.out.println("USN " + USN);
    System.out.println("Enter student  
name. " + Name);
    for(int i = 0; i < 5; i++)
    {

```

```

        System.out.println("Subject " + (i+1) +  
        "Credits: " + credits[i] + "Marks"  
        + marks[i]);
    }

```

```

    System.out.println("SGPA of " +  
        Name + " is " + (float)  
        (SGPA / totCredits));
}
}

```

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```
void calcGPA() {
```

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

```
        if (marks[i] > 100) {
```

```
            {
```

```
                System.out.println("Invalid input");
```

```
                return;
```

```
            }
```

```
        else if (marks[i] >= 90) {
```

```
            {
```

```
                points[i] = 10;
```

```
            else if (marks[i] >= 80) {
```

```
                {
```

```
                    points[i] = 9;
```

```
                }
```

```
            else if (marks[i] >= 70) {
```

```
                {
```

```
                    points[i] = 8;
```

```
                }
```

```
            else if (marks[i] >= 60) {
```

```
                {
```

```
                    points[i] = 7;
```

```
                }
```

```
            else if (marks[i] >= 50) {
```

```
                {
```

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```
        points[i] = 5;  
    }  
    else if (marks[i] >= 40)  
    {  
        points[i] = 4;  
    }  
    else  
    {  
        points[i] = 0;  
    }  
    SGPA += (points[i] * credits[i]);  
}  
}
```

```
public class Program1  
{  
    public static void main (String args[])  
    {  
        Student s1 = new Student ();  
        s1.getDetails ();  
        s1.calcSGPA ();  
        s1.showDetails ();  
    }  
}
```