

Lab 2

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

```
class Student
```

```
{
```

```
    String usn, name;
```

```
    int credits [];
```

```
    float marks [];
```

```
    int n;
```

```
    float tot=0;
```

Student ()

```
{  
    Scanner sc = new Scanner(System.in);  
    System.out.println("Enter the number of subjects");  
    n = sc.nextInt();  
    credits = new int[n];  
    marks = new float[n];  
    usn = " ";  
    name = " ";  
}
```

void Accept ()

```
{  
    Scanner sc = new Scanner(System.in);  
    System.out.println("Enter your USN and Name");  
    usn = sc.nextLine();  
    name = sc.nextLine();  
    System.out.println("Enter credits and marks  
    for each subject");  
    for (int i = 0; i < n; i++)  
    {  
        credits[i] = sc.nextInt();  
        marks[i] = sc.nextFloat();  
    }  
}
```

void Calculate ()

```
{  
    int o = 0;  
    int m = 0;  
    float a = 0;  
    for (int i = 0; i < n; i++)  
    {  
        if (marks[i] >= 90)  
            m = 10;  
    }
```

```
elseif (marks[i] < 80 && marks[i] >= 80)
    m = 9;
elseif (marks[i] < 80 && marks[i] >= 70);
    m = 8;
elseif (marks[i] < 70 && marks[i] >= 60);
    m = 7;
elseif (marks[i] < 60 && marks[i] >= 50);
    m = 6;
elseif (marks[i] < 50 && marks[i] >= 40);
    m = 5;
elseif (marks[i] < 40)
    m = 0;
s = s + credits[i];
a = a + (credits[i] * m);
}
tot = a/s;
void Display()
{
    System.out.println("The details of the
                        Student");
    System.out.println("USN: " + usn + "
                        Name: " + name);
    System.out.println("Credits and Marks");
    for (int i = 0; i < n; i++)
    {
        System.out.println(credits[i] + " " +
                            marks[i]);
    }
    System.out.println("SGPA %.2f", tot);
}
```



```
class StudentMain
```

```
{
```

```
    public static void main(String arg[])
```

```
    {
```

```
        Student s1 = new Student();
```

```
        s1.Accept();
```

```
        s1.Calculate();
```

```
        s1.Display();
```

```
    }
```

```
}
```

```
Microsoft Windows [Version 10.0.19041.508]
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C:\Users\DELL>cd Desktop

C:\Users\DELL\Desktop>javac Student.java

C:\Users\DELL\Desktop>java StudentMain
Enter the number of subjects
4
Enter your USN and Name
1bm19cs054
divya
Enter credits and marks for each subject
3 89
5 78
2 66
4 77
The details of the student
USN:1bm19cs054    Name:divya
Credits and Marks
3 89.0
5 78.0
2 66.0
4 77.0
SGPA 8.07
C:\Users\DELL\Desktop>
```