

lab2.java

```
1  import java.util.Scanner;
2  class Student
3  {
4      private String usn;
5      private String sname;
6      private double sgpa;
7      private int[]c;
8      private int[]marks;
9      private int size=5;
10
11     void acceptDetails()
12     {
13         Scanner s1=new Scanner(System.in);
14         System.out.println("Enter the USN");
15         usn=s1.next();
16         System.out.println("Enter the name");
17         sname=s1.next();
18         c=new int[size];
19         marks= new int[size];
20         for(int i=0;i<size;i++)
21         {
22             System.out.println("enter the credits and marks of subject"+i);
23             c[i]=s1.nextInt();
24             marks[i]=s1.nextInt();
25         }
26     }
27
28     void calculate()
29     {
30         int num=0,deno=0,gradep=0;
31         for(int i=0;i<size;i++)
32         {
33             if(marks[i]>=90)
34                 gradep=10;
35             else if(marks[i]>=80)
36                 gradep=9;
37             else if(marks[i]>=70)
38                 gradep=8;
39             else if(marks[i]>=60)
40                 gradep=7;
41             else if(marks[i]>=50)
42                 gradep=5;
43             else if(marks[i]>=40)
44                 gradep=4;
45             else if(marks[i]<=40)
```

```
33         if(marks[i]>=90)
34             gradep=10;
35         else if(marks[i]>=80)
36             gradep=9;
37         else if(marks[i]>=70)
38             gradep=8;
39         else if(marks[i]>=60)
40             gradep=7;
41         else if(marks[i]>=50)
42             gradep=5;
43         else if(marks[i]>=40)
44             gradep=4;
45         else if(marks[i]<=40)
46             gradep=0;
47         num +=gradep*c[i];
48         deno +=c[i];
49     }
50     sgpa=num/deno;
51     System.out.println("Student sgpa is:"+sgpa);
52 }
53
54 void printDetails()
55 {
56     System.out.println("*****Student Details*****");
57     System.out.println("Student USN:"+usn);
58     System.out.println("Student name:"+sname);
59     for(int i=0;i<size;i++)
60     {
61         System.out.println("Credit is:"+c[i]);
62         System.out.println("Marks of subject"+i+" "+marks[i]);
63     }
64 }
65 }
66
67 class StudentMain
68 {
69     public static void main(String args[])
70     {
71         Student s1=new Student();
72         s1.acceptDetails();
73         s1.printDetails();
74         s1.calculate();
75     }
76 }
```

```
PS C:\Users\akki\Desktop\PROJECT WORK> javac lab2.java
PS C:\Users\akki\Desktop\PROJECT WORK> java StudentMain
Enter the USN
1BM19CS091
Enter the name
Muskan
enter the credits and marks of subject0
4
78
enter the credits and marks of subject1
3
70
enter the credits and marks of subject2
2
98
enter the credits and marks of subject3
3
86
enter the credits and marks of subject4
4
80
*****Student Details*****
Student USN:1BM19CS091
Student name:Muskan
Credit is:4
Marks of subject0 78
Credit is:3
Marks of subject1 70
Credit is:2
Marks of subject2 98
Credit is:3
Marks of subject3 86
Credit is:4
Marks of subject4 80
Student sgpa is:8.0
PS C:\Users\akki\Desktop\PROJECT WORK> 
```