

Lab2.java > ...

```
1  import java.util.Scanner;
2
3  class Student {
4      private String usn;
5      private String name;
6      private int[] a_cdt=new int[5];
7      private int[] a_mark=new int[5];
8
9      void setDetails(){
10         Scanner s=new Scanner(System.in);
11         System.out.println("Enter student usn:");
12         usn=s.next();
13         System.out.println("Enter student name:");
14         name=s.next();
15         System.out.println("Enter credits and marks of the five subjects respectively:");
16         for(int i=0;i<5;i++)
17         {
18             a_cdt[i]=s.nextInt();
19             a_mark[i]=s.nextInt();
20         }
21         s.close();
22     }
23     void getDetails(){
24         System.out.println("-----Students Details-----");
25         System.out.print("usn = "+usn+"\n"+"name = "+name+"\n");
26         System.out.println("Credits and Marks of the six subjects:");
27         for(int i=0;i<5;i++)
28         {
29             System.out.println("Sub-"+(i+1)+" credit = "+a_cdt[i]+" and Marks = "+a_mark[i]);
30         }
31     }
}
```

```

32     void gradeCalci(){
33         double sgpa=0;
34         int cSum=0,gp;
35         for(int i=0;i<5;i++){
36             cSum+=a_cdt[i];
37             if(a_mark[i]>=90)
38                 gp=10;
39             else if(a_mark[i]>=80)
40                 gp=9;
41             else if(a_mark[i]>=70)
42                 gp=8;
43             else if(a_mark[i]>=60)
44                 gp=7;
45             else if(a_mark[i]>=50)
46                 gp=5;
47             else if(a_mark[i]>=40)
48                 gp=4;
49             else
50                 gp=0;
51             sgpa+=a_cdt[i]*gp;
52         }
53         System.out.println("SGPA = "+sgpa/cSum);
54     }
55 }
56 public class Lab2 {
57     Run | Debug
58     public static void main(String[] args) {
59         Student s1=new Student();
60         s1.setDetails();
61         s1.getDetails();
62         s1.gradeCalci();
63     }
64 }

```

```
PS C:\Users\Chaya Shetty\Desktop\jv> javac Lab2.java
PS C:\Users\Chaya Shetty\Desktop\jv> java Lab2
Enter student usn:
1BM19CS082
Enter student name:
Manikanth
Enter credits and marks of the five subjects respectively:
5 86
4 83
4 88
4 90
3 96
-----Students Details-----
usn = 1BM19CS082
name = Manikanth
Credits and Marks of the six subjects:
Sub-1 credit = 5 and Marks = 86
Sub-2 credit = 4 and Marks = 83
Sub-3 credit = 4 and Marks = 88
Sub-4 credit = 4 and Marks = 90
Sub-5 credit = 3 and Marks = 96
SGPA = 9.35
PS C:\Users\Chaya Shetty\Desktop\jv> |
```