

```
*D:\Java\jdk1.8.0_261\bin\prog\StudentMain.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

StudentMain.java student.java
1 import java.util.Scanner;
2 class Student
3 {
4     private String usn;
5     private String name;
6     private int credits[];
7     private int marks[];
8     private double sgpa;
9
10    void getDetails(int n)
11    {
12        System.out.println("Enter Students details:\n");
13        Scanner get=new Scanner(System.in);
14        System.out.println("USN:");
15        usn=get.next();
16        System.out.println("Name:");
17        name=get.next();
18        marks=new int[n];
19        credits=new int[n];
20        System.out.println("Enter marks and credits respectively:");
21        for( int i=0;i<n;i++)
22        { System.out.println("\nSubject "+(i+1));
23          marks[i]=get.nextInt();
24          credits[i]=get.nextInt();
25          if(marks[i]>=100||credits[i]>5||marks[i]<0||credits[i]<0)
26          {System.out.println("Enter correct values:\n");
27            marks[i]=get.nextInt();
28            credits[i]=get.nextInt();}
29        }
30    }
31
32    void calcsgpa(int n)
33    { double sum=0,sgpa,sumc=0;
34
35        for(int i=0;i<n;i++)
36        {sum=(marks[i]/10+1)*credits[i]+sum;
37          sumc=credits[i]+sumc;
38        }
39    }
40
41    void printDetails(int n)
42    {
43        System.out.println("\nUSN:"+ usn);
44        System.out.println("NAME:"+name);
45        System.out.println("MARKS\tCREDITS");
46
47        for(int i=0;i<n;i++)
48        {
49            System.out.println(marks[i]+\t"+credits[i]);
50            calcsgpa(n);
51        }
52    }
53
54    class StudentMain
55    {
56        public static void main(String args[])
57        {
58            int n;
59            System.out.println("Enter the no of subjects:");
60            Scanner get=new Scanner(System.in);
61            n=get.nextInt();
62            Student s1= new Student();
63            s1.getDetails(n);
64
65            s1.printDetails(n);
66        }
67    }
68
69 }
```

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StudentMain.java student.java
32 void calcsgpa(int n)
33 { double sum=0,sgpa,sumc=0;
34
35     for(int i=0;i<n;i++)
36     {sum=(marks[i]/10+1)*credits[i]+sum;
37       sumc=credits[i]+sumc;
38     }
39     sgpa=sum/sumc;
40     System.out.printf("SGPA :"+sgpa);
41 }
42
43 void printDetails(int n)
44 {
45     System.out.println("\nUSN:"+ usn);
46     System.out.println("NAME:"+name);
47     System.out.println("MARKS\tCREDITS");
48
49     for(int i=0;i<n;i++)
50     {
51         System.out.println(marks[i]+\t"+credits[i]);
52         calcsgpa(n);
53     }
54 }
55
56 class StudentMain
57 {
58     public static void main(String args[])
59     {
60         int n;
61         System.out.println("Enter the no of subjects:");
62         Scanner get=new Scanner(System.in);
63         n=get.nextInt();
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65         s1.getDetails(n);
66
67         s1.printDetails(n);
68     }
69 }
```

Command Prompt

```
Subject 1
85
5
Enter correct values:
76
4

Subject 2
98
4

Subject 3
65
2

Subject 4
76
3

USN: IBM190
NAME: A
MARKS    CREDITS
76       4
98       4
65       2
76       3
SGPA : 8.461538461538462
D:\Java\jdk1.8.0_261\bin\prog>
```



15:30
06-10-2020