



Run

Debug

Stop

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Language Java

Main.java

```
1 import java.util.Scanner;
2 class Student {
3     String usn;
4     String name;
5     int credits[];
6     double marks[];
7     int n;
8
9     void input()
10    {
11        Scanner in=new Scanner(System.in);
12        System.out.println("Enter student details");
13        System.out.print("Name:");
14        name=in.nextLine();
15        System.out.print("USN:");
16        usn=in.nextLine();
17        System.out.println("Enter the number of subjects:");
18        n=in.nextInt();
19        credits=new int[n];
20        marks=new double[n];
21        System.out.println("Enter credits and marks obtained:");
22        for(int i=0;i<n;i++)
23        {
24            System.out.print("Subject "+(i+1)+": ");
25            credits[i]=in.nextInt();
26            System.out.print("Marks: ");
27            marks[i]=in.nextDouble();
28        }
29    }
30
31    void display()
32    {
33        System.out.println("Student Details");
34        System.out.println("Name: "+name);
35        System.out.println("USN: "+usn);
36        System.out.println("Number of subjects: "+n);
37        System.out.println("Credits Marks");
38        for(int i=0;i<n;i++)
39        {
40            System.out.println(credits[i] + " " + marks[i]);
41        }
42    }
43 }
```

```
System.out.println("Enter credits and marks obtained:");
for(int i=0;i<n;i++)
{
    System.out.println("Enter credits and marks attained in subject."+(i+1));
    credits[i]=in.nextInt();
    marks[i]=in.nextDouble();
}
void display()
{
    System.out.println("Student details:");
    System.out.println("Name:"+name);
    System.out.println("USN:"+usn);
    System.out.println("Marks in each subject:");
    for(int i=0;i<n;i++)
    {
        System.out.println("Subject "+(i+1)+":"+marks[i]);
    }
}
double calculate()
{
```

```
42     double sop=0.0,sumofc=0.0;
43     for(int i=0;i<n;i++)
44     {
45         sumofc+=credits[i];
46         if(marks[i]>=50)
47         {
48             sop+=(((marks[i]/10)+1)*credits[i]);
49         }
50         else if(marks[i]>=40 && marks[i]<50)
51         {
52             sop+=(4*credits[i]);
53         }
54     }
55     return sop/sumofc;
56 }
57 }
58 public class Main
59 {
60
61     public static void main(String args[])
62     {
63         Student stud1=new Student();
64     }
65 }
```

```
ain.java
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```

```
    {
        sop+=(((marks[i]/10)+1)*credits[i]);
    }
    else if(marks[i]>=40 && marks[i]<50)
    {
        sop+=(4*credits[i]);
    }
}
return sop/sumofc;
}
}

public class Main
{
    public static void main(String args[])
    {
        Student stud1=new Student();
        stud1.input();
        stud1.display();
        System.out.println("SGPA: "+stud1.calculate());
    }
}
```

input

Enter student details

Name:PREMA

USN:1BM19CS121

Enter the number of subjects:

5

Enter credits and marks obtained:

Enter credits and marks attained in subject.1

4 98

Enter credits and marks attained in subject.2

5 89

Enter credits and marks attained in subject.3

5 79

Enter credits and marks attained in subject.4

4 56

Enter credits and marks attained in subject.5

3 100

Student details:

Name:PREMA

USN:1BM19CS121

Marks in each subject:

Subject 1:98.0

Subject 2:89.0

Subject 3:79.0

```
4 98
Enter credits and marks attained in subject.2
5 89
Enter credits and marks attained in subject.3
5 79
Enter credits and marks attained in subject.4
4 56
Enter credits and marks attained in subject.5
3 100
Student details:
Name:PREMA
USN:1BM19CS121
Marks in each subject:
Subject 1:98.0
Subject 2:89.0
Subject 3:79.0
Subject 4:56.0
Subject 5:100.0
SGPA: 9.361904761904762
```

Friday • May • 2020

22

Week 21
Day 143-223
Date 22-5-2020

	Mo	Tu	We	Th	Fr	Sa	Su
JUN 2020	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30					

Develop a Java program to create a class student with members usn, name, an array credits and array marks. include methods to accept and display details and a method to calculate SGPA of a student.

import java.util.Scanner;

class student {

String usn;

String name;

int credits[];

double marks[];

int n;

void input()

{ Scanner in = new Scanner(~~(~~ System.in);

System.out.println("Enter student details");

^{Follow Up} System.out.println("Enter the student name");

~~as~~ name = in.nextLine();

System.out.println("Enter the usn");

usn = in.nextLine();

Mo	Tu	We	Th	Fr	Sa	Su
	1	2	3			
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Saturday • May • 2020

Week 21
Day 144-222
Date 23-5-2020

23

System.out.println ("Enter the number of subjects")

n = in.nextInt();

credits = new int[n];

marks = new ~~int~~ int[n];System.out.println ("Enter the credits and marks
of subject every subject");

for (int i=0; i<n; i++)

System.out.println ("Enter ^{the} credits and marks of
sub: " + (i+1));

credits[i] = in.nextInt();

marks[i] = in.nextDouble();

24 Sunday

{

void display()

{

System.out.println ("student details");

Follow Up System.out.println ("USN: " + usn + " Name:
" + name) ~~int~~

Monday • May • 2020

25

Week 22
Day 146-220
Date 25-5-2020

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

```
System.out.println("Marks in each subject");  
for (int i=0; i<n; i++)  
    System.out.println(" sub" + (i+1) + " " +  
        marks[i]);  
}
```

double calculate()

```
{ double sumofc = 0.0; SOP = 0.0;
```

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

```
    sumofc += credits[i];
```

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

```
{
```

```
    SOP += ((marks[i]/10)+1) * credits[i];
```

```
if (marks[i] >= 40 & & marks[i] < 50)
```

```
{
```

```
    SOP += (4 * credits[i]);
```

Follow Up

```
{
```

```
return SOP / sumofc;
```

```
{ }
```

Work to do

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3		
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Tuesday • May • 2020

Week 22
Day 147-219
Date 26-5-2020

26

public class Main

{

public static void main (String args[]){

Student stud1 = new Student();

stud1. ^{input}accept();

stud1.display();

System.out.println ("SGPA of student is:
" + stud1.calculate());

{

}

Follow Up

Work to do