

Lab Program-2

08/10/2024

```
SGPA.java
import java.util.Scanner;
class SGPA {
    int marks[], i;
    int credits[], j;
    String name;
    void takeInput() {
        // This program takes 8
        // subjects' marks
        // takes other inputs
        marks = new int[8];
        credits = new int[8];
        System.out.println("Enter the marks and");
        System.out.println("Credits of 8 subjects");
        Scanner scan = new Scanner(System.in);
        for (int i = 0; i < marks.length; i++) {
            marks[i] = scan.nextInt();
        }
        credits[i] = scan.nextInt();
    }
    void displayInput() {
    }
}
```

Q) Develop a Java program to create a class Student with members usn, name, an array of marks. Include methods to accept, display and calculate sum.

System.out.println("the data of the student marks and credits are ");

```
for (int i = 0; i < marks.length; i++)
```

```
{}
```

```
System.out.println("credits " + credits[i] + "marks " + marks[i]);
```

```
{}
```

```
}
```

```
int getGrade(int num)
{
    if (num >= 90)
        return 10;
    else if (num >= 80)
        return 9;
    else if (num >= 70)
        return 8;
    else if (num >= 60)
        return 7;
    else if (num >= 50)
        return 6;
}
```

```
else if (num >= 90)  
    return 5;
```

```
g  
return 0;
```

```
float calcSGPA ()
```

```
f
```

~~float sgpa~~

```
float sgpa = 0f
```

```
float total = 0f;
```

```
for (int i = 0; i < marks.length;
```

```
i++)
```

```
    getGrade();
```

```
    sgpa += (marks[i] * credits[i]);
```

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

```
sgpa = sgpa / total;
```

```
return sgpa;
```

```
3
```

Program

void takeStudentInput()

{

Scanner scan = new Scanner

(System.in);

System.out.println("Enter

the name and usn from

the student ");

name = scan.nextLine();

usn = scan.nextLine();

}

{

Main.java

public class Main

@Override

public static void main(

String[] args)

{

S GPA s1 = new S GPA();

S GPA s2 = new S GPA();

System.out.println("

Enter the details of

student "));

S1. take Input ()

System.out.println("enter the
details for student 2");

S2. take Input ()

System.out.println("the detail
of first student along
with SGP is ");

S1. display Input();

System.out.println("the SGP
is "+~~SGP~~);

System.out.println("the detail
of second student along
with SGP is ");

S2. display Input();

System.out.println("the SGP
is "+ S2. take SGP());

for loop

Op:-
Enter the details from student /
order the name and type
Ghanachayam
from 23CS100
enter the marks and credits
for 8 subjects

90 9
87 4
70 3

60 3
50 3

100 1
100 1

The detail of the first student is
the detail of the student are as
follows

name	ghanachayam	from 23CS100
credit : 4	marks 96	
credit : 4	marks 87	
credit : 3	marks 76	
credit : 3	marks 66	
credit : 3	marks 56	
credit : 1	marks 100	
credit : 1	marks 100	
credit : 1	marks 100	

the sgpa is of 8.65

8.10