

Lab Program-2

08/10/2024

```
SGPA.java
import java.util.Scanner;
class SGPA {
    int marks[];
    int credits[];
    String name, user;
    void takeInput() {
        // this program takes 8
        // subjects marks
        takeOtherInput();
        marks = new int[8];
        credits = new int[8];

        System.out.println("Enter the marks and 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, array credit and array marks. Include methods to accept, display and calculate sum of

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;

return 0;

float calcSGPA()

{

~~float sgpa = 0;~~

float sgpa = 0;

float total = 0;

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

i++)

{
getGrade

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

total += credits[i];

sgpa = sgpa / total;

return sgpa;

}

```
void takeOtherInput()
```

Scanner scan = new Scanner(System.in);

item out. printIn() enters the name and asks for the student ID.

```
name = sorn.nextLine();  
scn = scn.nextLine();
```

Main: java

Public class Main ~~list of objects~~

public static void main(
String[] args)

S_{GPA} $S_1 = \text{new } S_{GPA}(S)$
 S_{GPA} $S_2 = \text{new } S_{GPA}(S)$

system. Out. Positioning
porters the details of
Student¹¹).

s1.takeInput();

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

s2.takeInput();

System.out.println("The detail of first student along with GPA is");

s1.displayInput();

System.out.println("The GPA is" + ~~s1.getGPA~~ s1.getGPA());

System.out.println("The detail of second student along with GPA is");

s2.displayInput();

System.out.println("The GPA is" + s2.getGPA());

Program
ended

Op:-

enter the details from student 1
enter the name and age
ghanchyam
1bm23cc100
enter the marks and credits
for 8 subjects

50 9
87 4
70 3
60 3
50 3
100 1
100 1
100 1
100 1

the detail of the first student's
the data of the student are as
follows

name ghanchyam 1bm23cc100

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

B_{8.10}