

09/10/20

LAB-4

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18M19CS138

Develop a JAVA program to create a class student with member
usn, name, an array credits and an 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 n;
```

```
    double SGPA = 0;
```

```
    int credits = 0;
```

```
    Scanner in = new Scanner(System.in);
```

```
    void Details()
```

```
{
```

```
    System.out.println("Enter the usn of the student");
```

```
    usn = in.nextLine();
```

```
    System.out.println("Enter the name of the student");
```

```
    name = in.nextLine();
```

```
    System.out.println("Enter number of subjects");
```

```
    n = in.nextInt();
```

```
    int credits = new int[n];
```

```
    double marks = new double[n];
```

```
    System.out.println("Enter details of the subjects:");
```

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

```
{
```

```

system.out.println("Enter credits allotted to subject " + (i+1));
credits[i] = in.nextInt();
system.out.println("Enter marks in subject " + (i+1));
marks[i] = in.nextInt();
Calculate(credits[i], marks[i], i);

```

```

}

void Calculate(int credit, double mark, int j)
{
    credits = credits + credit;
    if (mark >= 90 && mark <= 100)
        SGPA = SGPA + (10 * credit);
    else if (mark >= 80 && mark <= 89)
        SGPA = SGPA + (9 * credit);
    else if (mark >= 70 && mark <= 79)
        SGPA = SGPA + (8 * credit);
    else if (mark >= 60 && mark <= 69)
        SGPA = SGPA + (7 * credit);
    else if (mark >= 50 && mark <= 59)
        SGPA = SGPA + (6 * credit);
    else if (mark >= 40 && mark <= 49)
        SGPA = SGPA + (5 * credit);
    else
        system.out.println("Failed in subject " + (j+1));
}

```

```

} void Display()
{
    system.out.println("Details of student");
    system.out.println("Name : " + name);
    system.out.println("USN : " + USN);
    system.out.println("SGPA of student " + (SGPA / credits));
}

```

public class sgpa

{

public static void main (String args[])

{

Student s1 = new Student();

s1.Details();

s1.Display();

}

}

* Output :-

Enter the USN the student

1BM19CS138

Enter the Name of student

praveen

Enter no of subjects

2

Enter the details of the subjects :

Enter credits allotted to subject 1

4

Enter marks in the subject 1

78

Enter credits allotted to subject 2

4

Enter marks in subject 2

87

Details of student

Name : praveen

USN : 1BM19CS138

SGPA of student 8.5

4