

19/12/23

PAGE NO :

DATE :

```
import java.util.Scanner;  
class Subject
```

```
{
```

```
    int subjectmarks;
```

```
    int credits;
```

```
    int grade;
```

```
}
```

```
class Student
```

```
{
```

```
    String name;
```

```
    String usn;
```

```
    double GPA;
```

```
    Scanner S;
```

```
    Subject[] subjects;
```

```
Student()
```

```
{
```

```
    int P;
```

```
    subjects = new Subject[9];
```

```
    for (i=0; i<9; i++)
```

```
{
```

```
        subjects[i] = new Subject();
```

```
}
```

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

```
}
```

```
void getStudentDetails()
```

```
{
```

```
    System.out.println("Enter Student name:");
```

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

```
    System.out.println("Enter Student usn:");
```

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

```

}
void getMarks()
{
    for (int i=0; i<9; i++)
    {
        System.out.println("Enter marks for  
Subjects "+(i+1)+" :");
        Subjects[i].Subjectmarks = S.nextInt();
        Subjects[i].Credits = 4;
        if (Subjects[i].Subjectmarks >= 90) {
            Subjects[i].grade = 10;
        }
        else if (Subjects[i].Subjectmarks >= 75) {
            Subjects[i].grade = 9;
        }
        else if (Subjects[i].Subjectmarks >= 60) {
            Subjects[i].grade = 8;
        }
        else if (Subjects[i].Subjectmarks >= 50) {
            Subjects[i].grade = 7;
        }
        else if (Subjects[i].Subjectmarks >= 40) {
            Subjects[i].grade = 6;
        }
        else {
            Subjects[i].grade = 0;
        }
    }
}
}
}

```

```

void computeSnpA()
{

```

```

    double totalCredits=0;
    double totalGradePoints=0;
    for (int i=0; i<9; i++)
    {

```

```

        totalGradePoints += Subjects[i].grade *

```



```
subjects[i].Credits;  
totalCredits += subjects[i].Credits;  
}  
SgPA = total gradePoints / totalCredits;  
}
```

class main

```
{  
    public static void main(String args[])  
    {  
        Student S1 = new Student();  
        S1.getStudentDetails();  
        S1.getMarks();  
        S1.ComputeSgPA();  
  
        System.out.println("In Student details"),  
        System.out.println("Name:" + S1.name);  
        System.out.println("Usn:" + S1.usn);  
        System.out.println("SgPA:" + S1.SgPA);  
    }  
}
```

Output:

```
Enter Student name: 'Prakruthi'  
Enter Student usn: '12023RMS0609'  
Enter marks for subject 1: 60  
Enter marks for subject 2: 80  
Enter marks for subject 3: 75  
Enter marks for subject 4: 65  
Enter marks for subject 5: 85
```

PAGE NO:

DATE:

Enter marks for subject 6: 70

Enter marks for subject 2: 90

Enter marks for subject 8: 50

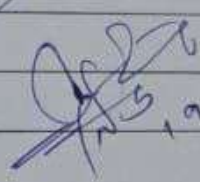
Enter marks for subject 9: 20

Student details

Name: P. Lakshmi

USN: 2023BMS0609

SEPA: 8.55


19.12.24