19/12/23

```
import java.util.Scanner;

class Subject
{
    int Marks;
    int Credits;
    int Grade;
}

class Student
{
    Subject[] Subjects;
    String name;
    String usn;
    double SGPA;
    Scanner s;

    Student()
    {
        int i;
        Subjects = new Subject[10];
        for(i=0; i<8; i++)
        {
            Subjects[i] = new Subject();
        }
        s = new Scanner(System.in);
    }

    void getStudentDetails()
    {
        System.out.println("Enter the name of
                the student");
        name = s.nextLine();
        System.out.println("Enter the usn of
                the student");
```

```
    usn = s.nextLine();
}
void getMarks()
{
    int i;
    System.out.println("Enter the marks");
    for (i=0; i<8; i++)
    {
        Subjects[i].Marks = s.nextInt();
        if (Subjects[i].Marks >100)
        Subjects[i].Grade =10;

        else if( Subjects[i].Marks >=90 &&
                 Subjects[i].Marks <=100)
         Subjects[i].Grade =10;
        &
        else if( Subjects[i].Marks >= 80 &&
                 Subjects[i].Marks <90)
          Subjects[i].Grade =9;

        else if (Subjects[i].Marks >=70 &&
                 Subjects[i].Marks < 80)
          Subjects[i].Grade =8;

        else if (Subjects[i].Marks >=60 &&
                 Subjects[i].Marks <70)
          Subjects[i].Grade = 7;

        else if (Subjects[i].Marks >=50 &&
                 Subjects[i].Marks <60)
          Subjects[i].Grade =6;
```

```
else if (subjects[i].Marks >= 40 && Subjects.
        Marks < 50)
    Subjects[i].Grade = 5;
else
    System.out.println("Fail");
}
for(i=0; i<8; i++)
{
System.out.println("enter the credits");

for(i=0; i<8; i++)
{
    Subjects[i].Credits = s.nextInt();
}
}
void compuleSGPA()
{
    int i;
    int n, SGPA;
    int d = 20;
    int n_sum = 0;

    for(i=0; i<8; i++)
    {
        n = (Subjects[i].Grade)*(Subjects[i].
            Credits);
        n_sum = n + n_sum;
    }

    SGPA = (n_sum) / (d);
    System.out.println("SGPA = "+SGPA);
}
}
```

```
class Main
{
    public static void main (String args[])
    {
        Student s1 = new Student();
        s1.getStudentDetails();
        s1.getMarks();
        s1.computeSGPA();
    }
}
```

output:

```
Enter the name usn of the student
Preeti
Enter the usn of the student
208
Enter the marks
92
94
89
90
94
86
98
96
enter the credits
4
4
3
3
3
1
```

SGPA = 9.8

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