

19/12/23

Develop a Java program to create a class student with members usn, name, an array credits and array marks. Include methods accept and display details and a method to calculate SAPA of a student.

```
import java.util.Scanner;
```

```
class Subject {
```

```
    int subjectMarks;
```

```
    int credits;
```

```
    int grade;
```

```
}
```

```
class Student
```

```
{
```

```
    Subject subject[];
```

```
    String name;
```

```
    String usn;
```

```
    double sapa = 0;
```

```
    Scanner s;
```

```
    Student()
```

```
{
```

```
    int i;
```

```
    subject = new Subject[8];
```

```
    for (i = 0; i < 8; i++)
```

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

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

```
}
```

```
    void getStudentDetails()
```

```
{
```

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

```
        name = s.next();
```

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

```
        usn = s.next();
```

```
}
```



```
void getmarks()
```

```
{
```

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

```
    {
```

```
        System.out.println("Enter marks of subject " + (i+1) + ":");
```

```
        System.out.
```

```
        subject[i].subjectmarks = s.nextInt();
```

```
        System.out.println("Enter credits for subject " + (i+1) + ":");
```

```
        subject[i].credits = s.nextInt();
```

```
        subject[i].grade = (subject[i].
```

```
            subjectmarks/10) + 1;
```

```
        if (subject[i].grade > 11)
```

```
            subject[i].grade = 10;
```

```
        if (subject[i].grade < 4)
```

```
            subject[i].grade = 0;
```

```
    }
```

```
}
```

```
void computeSGPA()
```

```
{
```

```
    int totalCredits = 0;
```

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

```
    {
```

```
        sgpa += (subject[i].credits * subject[i].grade) /
```

```
        totalCredits += subject[i].credits;
```

```
    }
```

```
    sgpa = sgpa / totalCredits;
```

```
}
```

subject 0;
in);

your name: "

your usn: "

class main

{

public static void main (String args[])

{

Student s1 = new Student();

s1.getStudentDetails();

s1.getMarks();

s1.compute SGPA();

System.out.println("Name:" + s1.name);

System.out.println("USN:" + s1.usn);

System.out.println("SGPA:" + s1.sgpa);

}

}

output

Enter your Name

Shree Sudhanva

Enter your USN

1BM22CS262

Enter marks of Subject 1

89

Enter marks of Subject 2 & 3

Enter marks of Subject 3

Enter credits of Subject 1

4

Enter marks of subject 2

69

Enter credits of subject 2

4

Enter marks of subject 3

80

Enter credits of subject 3

3

Enter m

90

Enter c

3

Enter m

90

Enter

3

Enter

95

Enter

1

Enter

91

Enter

1

Enter

98

Enter

1

Name :

USN :

SGPA :

15/12/23

Enter marks of subject 4

90

Enter credits of subject 4

3

Enter marks of subject 5

90

Enter credits of subject 5

3

Enter marks of subject 6

95

Enter credits of subject 6

1

Enter marks of subject 7

91

Enter credits of subject 7

1

Enter marks of subject 8

98

Enter credits of subject 8

1

Name : Shree Sudhanva

USA : IBM2201262

SGPA : 9.05

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