

LAB-2

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

```
import java.util.*;
```

```
class Student
```

```
{
```

```
String name, usn;
```

```
int [] credits;
```

```
int [] marks;
```

```
void accept()
```

```
{
```

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

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

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

```
System.out.println("Enter USN:");
```

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

```
System.out.println("Enter marks:");
```

```
marks = sc.nextInt();
```

```
int n = sc.nextInt();
```

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

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

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

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

```
System.out.println("Enter credits:");
```

```
credits[j] = sc.nextInt();
```

```
System.out.println("Enter marks:");
```

```
void calc()
```

```
{
```

```
double sgpa;
```

```
int c = 0, m = 0;
```

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

```
{
```

```
c += credits[j];
```

```
m += marks[j];
```

```
}
```

```
System.out.println("Total credits: " + c);
```

```
System.out.println("Total marks: " + m);
```

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

```
{
```

```
int s += (marks[j] * credits[j]);
```

```
sgpa = s / c;
```

```
sgpa = sgpa / 10;
```

```
}
```

```
}
```

```
void display()
```

```
{
```

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

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

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

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

```
{
```

```
System.out.println("credits: " + credits[j]);
```

```
System.out.println("marks: " + marks[j]);
```

```
}
```

```
}
```


Public static void main (String args[])

{

Student obj = new Student ();

obj.accept ();

obj.calc ();

obj.display ();

}

}

~~Output:~~

Output:

enter no. of students : 2

enter usn : CS019

enter name : Keertana

enter no of subjects : 2

82

enter credits and marks : 2

78

enter credits and marks : 3

67

usn : CS019

name : Keertana

Credits for subject 1 is : 2

marks for subject 1 is : 78

Credits for subject 2 is : 3

marks for subject 2 is : 67

total credits : 5

total marks : 145

SGPA is : 6.4

enter usn :

CS020

enter name :

Antara

enter no of subjects :

2

Enter number of subject :

2

Enter credits and marks : 3

89

Enter credits and marks : 4

67

usr : cs020

name : ardra

credits for subject 1 is : 3

marks for subject 1 is : 89

credits for subject 2 is : 4

marks for subject 2 is : 67

total credits : 7

total marks : 156

SGPA is : 6.8571