

## LAB PROGRAM 2

Develop a Java program to create a class Student with members 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 Main Student
{
    String usn, name;
    static int credits[];
    static double marks[];
    void input (int n)
    {
        Scanner sc = new Scanner(System.in);
        SDP("Enter usn & name");
        usn = sc.nextLine();
        name = sc.nextLine();
    }
}
```

```

SOP("Enter marks along with cred\n");
for (int i=0; i<n; i++)
{

```

```

    marks[i] = sc.nextDouble();
    credits[i] = sc.nextInt();
    SOP();
}

```

```

}

double calculate(int n)
{

```

```

    int c, cred=0;

```

```

double tot, total=0.0;
for (int i=0; i<n; i++)
{

```

```

    tot = marks[i];

```

```

    if (tot > 90)

```

```

        c=10;

```

```

    else if (tot >= 80)

```

```

        c=9;

```

```

    else if (tot > 70)

```

```

        c=8;

```

```

    else if (tot > 60)

```

```

        c=7;

```

```

    else if (tot > 50)

```

```
else if (tot > 50)
```

```
    c = 6;
```

```
else if (tot > 40)
```

```
    c = 5;
```

```
else
```

```
    c = 0;
```

```
total = total + (c * credits[i]);
```

```
cred = cred + credits[i];
```

```
}
```

```
total = total / cred;
```

```
return (total);
```

```
}
```

```
void display (int n, double total)
```

```
    SOP ("name of student : " + name);
```

```
    SOP ("usn of student : " + usn);
```

```
    SOP ("marks of student along with credits of course");
```

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

```
{
```

```
    SOP (marks[i] + " " + total);
```

```
}
```

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```
public static void main (String args[])
{
```

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

```
Student obj = new Student ();
```

```
SOP ("Enter no of course");
```

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

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

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

```
obj.input (n);
```

```
double total = obj.calculate (n);
```

```
obj.display (n, total);
```

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enter no of course

3

enter usn and name

1bm19cs095

nayana

enter marks along with credits

80.0 5

77.0 4

66.0 3

name of student : nayana



name of student : nayana

usn of student : 1bm19cs095

marks of student along with credits of course

80.0 5

77.0 4

66.0 3

sgpa of student : 8.166666666666666