

6/10/20

Lab 2

Aditi. A

IBM19CS006.

```
import java.util.Scanner;
class Student {
    private String usn, name;
    private double sgpa;
    private int n, i, sum=0, cred, sum=0, grade;
    double mark[] = new double[n];
    int credit[] = new int[n];
```

```
Student () {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter the sum of subjects : ");
    n = sc.nextInt();
}
```

```
void getStdData() {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter student details : ");
    usn = sc.next();
    name = sc.next();
}
```

```
for(i=0; i<n; i++) {
    System.out.println("Enter " + (i+1) + " sub marks and credits : ");
    marks[i] = sc.nextDouble();
    credit[i] = sc.nextInt();
}
}
```

```
void sgpa-cal() {
    for(i=0; i<n; i++) {
```

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Aditi A.

IBM19C5006

```
if (marks[i] >= 90 && marks[i] <= 100)
    grade = 10;
else if (marks[i] >= 80 80 && marks[i] < 90)
    grade = 9;
else if (marks[i] >= 70 && marks[i] < 80)
    grade = 8;
else if (marks[i] >= 60 && marks[i] < 70)
    grade = 7;
else if (marks[i] >= 50 && marks[i] < 60)
    grade = 6;
else if (marks[i] >= 40 && marks[i] < 50)
    grade = 5;
else if (marks[i] < 40)
    grade = 0;
sum += grade * credit[i];
}
```

```
for (i = 0; i < n; i++) {
    cred_sum += credit[i];
}
```

```
sgpa = (double) sum / cred_sum;
```

```
void printData()
{
```

```
    System.out.println("Student detail: ");
    System.out.println("USN: " + usn);
    System.out.println("Name: " + name);
    System.out.println("SGPA: " + sgpa);
}
```

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```
class StudentMain  
{  
    public static void main (String [] args)  
    {  
        Student s1 = new student ();  
        s1 = getStdData ();  
        s1.sqpa = cal ();  
        s1.printData ();  
    }  
}
```