

C:\Users\Aruna Ravi\CalculateCGPA.java - Notepad++

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ex2.java ex3.java javapgl.java new 1.txt new 1.html AbstractExample.java CalculateCGPA.java SetBookDetails.java new 1

```
1 import java.util.*;
2
3 class Student{
4     String name;
5     String USN;
6     int[] credits;
7     int[] marks;
8
9     Student(String yourName, String yourUSN, int[] yourCredits, int[] yourMarks)
10    {
11        this.name = yourName;
12        this.USN = yourUSN;
13        this.credits = yourCredits;
14        this.marks = yourMarks;
15    }
16
17    public int[] getGradePoints(int[] marksArray){
18        int[] gradePoints = new int[marksArray.length];
19        for(int i=0;i<marksArray.length;i++){
20            if (marksArray[i]>=90){
21                gradePoints[i] = 10;
22            }
23            else if (marksArray[i]>=80){
24                gradePoints[i] = 9;
25            }
26            else if (marksArray[i]>=70){
27                gradePoints[i] = 8;
28            }
29            else if (marksArray[i]>=60){
30                gradePoints[i] = 7;
31            }
32            else if (marksArray[i]>=50){
33                gradePoints[i] = 6;
34            }
35            else if (marksArray[i]>=40){
36                gradePoints[i] = 5;
37            }
38            else{
39                gradePoints[i] = 0;
40            }
41        }
42        return gradePoints;
43    }
44 }
```

Java source file

length : 3,164 lines : 101 Ln : 95 Col : 60 Sel : 0 | 0 Windows (CR LF) UTF-8 OVR

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ex2.java x ex3.java x javapgl.java x new 1.txt x new 1.html x AbstractExample.java x CalculateCGPA.java x SetBookDetails.java x new 1.x

```
43 }
44
45 public float calcArraySum(int[] anyArray){
46     float sum = 0;
47     for(int j=0;j<anyArray.length;j++){
48         sum += anyArray[j];
49     }
50     return sum;
51 }
52
53 public float calcCGPA(int[] creditsArray, int[] marksArray){
54     int[] totalGradePoints = new int[marksArray.length];
55     int[] gradePointsArray = getGradePoints(marksArray);
56     for(int k=0;k<marksArray.length;k++){
57         totalGradePoints[k] = creditsArray[k] * gradePointsArray[k];
58     }
59     float sumGradePoints = calcArraySum(totalGradePoints);
60     float totalCredits = calcArraySum(creditsArray);
61     float CGPA = sumGradePoints/totalCredits;
62     return CGPA;
63 }
64
65 public void dispDetails(){
66     System.out.println("Name: " + this.name);
67     System.out.println("USN: " + this.USN);
68     System.out.println("Credits: " + Arrays.toString(this.credits));
69     System.out.println("Marks: " + Arrays.toString(this.marks));
70     System.out.println("CGPA: " + calcCGPA(this.credits, this.marks));
71 }
72
73 }
74
75 class CalculateCGPA{
76     public static int[] getArrayFromString(String stringedArray){
77         String[] stringValues = stringedArray.split(",");
78         int[] arrayFromString = new int[stringValues.length];
79         for(int i=0;i<stringValues.length;i++){
80             arrayFromString[i] = Integer.parseInt(stringValues[i]);
81         }
82         return arrayFromString;
83     }
84     public static void main(String[] args){
85         Scanner getData = new Scanner(System.in);
86         System.out.println("Enter the number of Students and number of Subjects: ");
```

Java source file

length: 3,164 lines: 101

Ln: 73 Col: 2 Sel: 0 | 0

Windows (CR LF)

UTF-8

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```
58     }
59     float sumGradePoints = calcArraySum(totalGradePoints);
60     float totalCredits = calcArraySum(creditsArray);
61     float CGPA = sumGradePoints/totalCredits;
62     return CGPA;
63 }
64
65 public void dispDetails(){
66     System.out.println("Name: " + this.name);
67     System.out.println("USN: " + this.USN);
68     System.out.println("Credits: " + Arrays.toString(this.credits));
69     System.out.println("Marks: " + Arrays.toString(this.marks));
70     System.out.println("CGPA: " + calcCGPA(this.credits, this.marks));
71 }
72
73 }
74
75 class CalculateCGPA{
76     public static int[] getArrayFromString(String stringedArray){
77         String[] stringValues = stringedArray.split(",");
78         int[] arrayFromString = new int[stringValues.length];
79         for(int i=0;i<stringValues.length;i++){
80             arrayFromString[i] = Integer.parseInt(stringValues[i]);
81         }
82         return arrayFromString;
83     }
84     public static void main(String[] args){
85         Scanner getData = new Scanner(System.in);
86         System.out.println("Enter the number of Students and number of Subjects: ");
87         int numStudents = getData.nextInt();
88         int numSubjects = getData.nextInt();
89         Student studentList[] = new Student[numStudents];
90         Scanner getDetails = new Scanner(System.in);
91         for(int k=0;k<numStudents;k++){
92             System.out.println("Enter the details of student " + k + ": ");
93             studentList[k] = new Student(getDetails.next(),getDetails.next(),getArrayFromString(getDetails.next()),getArrayFromString(getDetails.next()));
94         }
95         System.out.println("\n***** STUDENT DETAILS with CGPA *****\n");
96         for(int h=0;h<studentList.length;h++){
97             studentList[h].dispDetails();
98             System.out.println("\n");
99         }
100     }
101 }
```



Command Prompt

```
2
Enter the details of student 0:
ravi
1bm10cs014
4
85
Enter the details of student 1:
raj
1bm19cs016
3
91

***** STUDENT DETAILS with CGPA *****

Name: ravi
USN: 1bm10cs014
Credits: [4]
Marks: [85]
CGPA: 9.0

Name: raj
USN: 1bm19cs016
Credits: [3]
Marks: [91]
CGPA: 10.0

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```



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