

Calculate Student GPA:

Java

```
import java.util.Scanner;

public class MyClass
{
    public main...
    {
        int noOfStudent;
        int courseCreditHour;
        double numericGrade;
        int studentNo;
        int noOfCourses; // course taken by student
        int courseCount;
        double cumulativeCreditHour;
        int totalCreditHour;
        double studentGPA;
        double studentGpaSum;
        double avgGPA;

        Scanner sc = new Scanner(System.in);
        // Get noOf student from student user.
        :
        studentNo = 1;
        studentGpaSum = 0.0;
        while (studentNo <= noOfStudents)
        {
            // read noOf students noOf courses taken by student
            courseCount = 1;
            cumulativeCreditHour = 0;
            totalCreditHour = 0;
```

dissecting a problem program.

Letter A $\rightarrow 4$ Letter B $\rightarrow 2$
Credit Hours 3 Credit Hours 4

$$\frac{4 \times 3 + 2 \times 4}{3 + 4} = \text{Cumulative Course Hour}$$

```
↳ while (courseCount <= noOfCourses)
```

```
{
```

```
    // Read numericGrade & course credit Hour
```

```
    Cumulative Credit Hour = Cumulative Credit Hour + numericGrade * course Credit Hour;
```

```
    total Credit Hour = total Credit hour + course Credit Hour;
```

```
    Course Count ++;
```

```
}
```

```
Student GPA = cumulative Credit Hour / Total Credit Hour;
```

```
Student Grade Sum = student GPASum + Student GPA;
```

```
Student NO ++;
```

```
}
```

```
// Find avg GPA for all Student;
```

```
avg GPA = student GPASum / no of students;
```

```
}
```