Assignment

package DITU.Classes;  
  
//Student Grading System  
// - Student Marks of 5 subjects  
// - Assign grades to students  
// - assign grade 'A' to students above 90%  
// - assign grade 'B' to students above 80%  
// - assign grade 'C' to students above 70%  
// - assign grade 'D' to rest of the students  
// - Use Good Encapsulation  
// - Use SRP and DRY  
  
import java.util.Scanner;  
  
class CalculateGrade{  
  
 private char Grade;  
  
 public void assignGrade(Student **ob**){  
 int **sum**=**ob**.getMarks1()+**ob**.getMarks2()+**ob**.getMarks3()+**ob**.getMarks4()+**ob**.getMarks5();  
 double **avg** = (double) **sum**/5;  
 if (**avg**>=90){  
 setGrade('A');  
 } else if (**avg**>=80){  
 setGrade('B');  
 }else if (**avg**>=70){  
 setGrade('C');  
 } else {  
 setGrade('D');  
 }  
 }  
  
 public char getGrade() {  
 return Grade;  
 }  
  
 public void setGrade(char **grade**) {  
 Grade = **grade**;  
 }  
}  
  
class printGrade{  
  
 public void printGrade(CalculateGrade **cg**){  
 System.***out***.println("The Grade -> "+ **cg**.getGrade());  
 }  
  
}  
  
public class Student {  
  
 private int marks1, marks2, marks3, marks4, marks5;  
  
 public Student(int **marks1**, int **marks2**, int **marks3**, int **marks4**, int **marks5**) {  
 this.marks1 = **marks1**;  
 this.marks2 = **marks2**;  
 this.marks3 = **marks3**;  
 this.marks4 = **marks4**;  
 this.marks5 = **marks5**;  
 }  
  
 public static void main(String[] **args**) {  
 Scanner **sc** = new Scanner(System.***in***);  
 System.***out***.println("Enter the marks of 5 subjects!!!");  
 int **m1** = **sc**.nextInt();  
 int **m2** = **sc**.nextInt();  
 int **m3** = **sc**.nextInt();  
 int **m4** = **sc**.nextInt();  
 int **m5** = **sc**.nextInt();  
 Student **ob** = new Student(**m1**, **m2**, **m3**, **m4**, **m5**);  
  
 CalculateGrade **cg** = new CalculateGrade();  
 **cg**.assignGrade(**ob**);  
  
 printGrade **pg** = new printGrade();  
 **pg**.printGrade(**cg**);  
  
 }  
  
 public int getMarks1() {  
 return marks1;  
 }  
  
 public void setMarks1(int **marks1**) {  
 this.marks1 = **marks1**;  
 }  
  
 public int getMarks2() {  
 return marks2;  
 }  
  
 public void setMarks2(int **marks2**) {  
 this.marks2 = **marks2**;  
 }  
  
 public int getMarks3() {  
 return marks3;  
 }  
  
 public void setMarks3(int **marks3**) {  
 this.marks3 = **marks3**;  
 }  
  
 public int getMarks4() {  
 return marks4;  
 }  
  
 public void setMarks4(int **marks4**) {  
 this.marks4 = **marks4**;  
 }  
  
 public int getMarks5() {  
 return marks5;  
 }  
  
 public void setMarks5(int **marks5**) {  
 this.marks5 = **marks5**;  
 }  
}

Output:

