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Programming Assignment 4 pg. 371, # 1

**This is the gradesDemo class**

**package** p4;

**import** java.util.Scanner;

**public** **class** GradeDemo

{

**public** **static** **void** main(String [] args)

{

Scanner keyboard = **new** Scanner(System.***in***);

grades totalGrade = **new** grades (); // new object

totalGrade.initialize();

**for** (**int** i = 1; i <=5; i++)

{

totalGrade.getStudentInfo();

totalGrade.calculateGrade();

totalGrade.printStudentInfo();

totalGrade.printFinalgrade();

}

}

}//end class

Class Grades, sorry I Did not call it StudentRecord.

**package** p4;

**import** java.util.Scanner;

**public** **class** grades

{

**private** String name;

**private** **int** quiz1;

**private** **int** quiz2;

**private** **int** midterm;

**private** **int** finalExam;

**private** **double** finalScore;

Scanner keyboard = **new** Scanner(System.***in***);

**public** **void** initialize ()

{

}

**public** **void** calculateGrade()

{

finalScore = ((quiz1+quiz2)\*1.25) + (midterm\*.25) + (finalExam\*.50);

**char** score;

}

**public** **void** getStudentInfo()

{

System.***out***.println( "Time to calculate your grade. Please tell me, what is your name?");

name = keyboard.nextLine();

String emtString = keyboard.nextLine();

System.***out***.println("What is your quiz 1 score out of 10?");

quiz1 = keyboard.nextInt();

System.***out***.println("What was your score for quiz 2 out of 10?");

quiz2 = keyboard.nextInt();

System.***out***.println("What was your score for your midterm out of 100?");

midterm = keyboard.nextInt();

System.***out***.println("What was your score for your final exam out of 100?");

finalExam = keyboard.nextInt();

}

**public** **void** printStudentInfo()

{

System.***out***.println("The student name is " + name);

System.***out***.println("Your quiz 1 grade is " + quiz1);

System.***out***.println("Your quiz 2 grade is " + quiz2);

System.***out***.println("Your midterm grade is " + midterm);

System.***out***.println("Your final exam grade is " + finalExam);

System.***out***.println("The final score for the student is " + finalScore);

}

**public** **void** printFinalgrade()

{

**if** (finalScore >= 90)

{ System.***out***.println("You get an A, Great Job!");

}

**else** **if** (finalScore >= 80)

{

System.***out***.println("You get a B.Nice Job!");

}

**else** **if** (finalScore >= 70)

{

System.***out***.println("You get a C, not bad but you can do better.");

}

**else** **if** (finalScore >= 60)

{ System.***out***.println("You get a D, more time needs to be spent studying.");

}

**else**

{

System.***out***.println("You got an F. Clearly some studying needs to be done.");

}

}

}

Outputs For 5 Students

Time to calculate your grade. Please tell me, what is your name?

Akeem

What is your quiz 1 score out of 10?

9

What was your score for quiz 2 out of 10?

8

What was your score for your midterm out of 100?

96

What was your score for your final exam out of 100?

97

The student name is Akeem

Your quiz 1 grade is 9

Your quiz 2 grade is 8

Your midterm grade is 96

Your final exam grade is 97

The final score for the student is 93.75

You get an A, Great Job!

Time to calculate your grade. Please tell me, what is your name?

Avalon

What is your quiz 1 score out of 10?

9

What was your score for quiz 2 out of 10?

8

What was your score for your midterm out of 100?

86

What was your score for your final exam out of 100?

87

The student name is Avalon

Your quiz 1 grade is 9

Your quiz 2 grade is 8

Your midterm grade is 86

Your final exam grade is 87

The final score for the student is 86.25

You get a B, Nice Job!

Time to calculate your grade. Please tell me, what is your name?

Andrew

What is your quiz 1 score out of 10?

6

What was your score for quiz 2 out of 10?

5

What was your score for your midterm out of 100?

56

What was your score for your final exam out of 100?

64

The student name is Andrew

Your quiz 1 grade is 6

Your quiz 2 grade is 5

Your midterm grade is 56

Your final exam grade is 64

The final score for the student is 59.75

You got an F. Clearly some studying needs to be done.

Time to calculate your grade. Please tell me, what is your name?

Rick

What is your quiz 1 score out of 10?

7

What was your score for quiz 2 out of 10?

8

What was your score for your midterm out of 100?

76

What was your score for your final exam out of 100?

73

The student name is Rick.

Your quiz 1 grade is 7

Your quiz 2 grade is 8

Your midterm grade is 76

Your final exam grade is 73

The final score for the student is 74.25

You get a C, not bad, but you can do better.

Time to calculate your grade. Please tell me, what is your name?

Robert

What is your quiz 1 score out of 10?

7

What was your score for quiz 2 out of 10?

7

What was your score for your midterm out of 100?

63

What was your score for your final exam out of 100?

65

The student name is

Your quiz 1 grade is 7

Your quiz 2 grade is 7

Your midterm grade is 63

Your final exam grade is 65

The final score for the student is 65.75

You get a D, more time needs to be spent studying.