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\* Class:Test\_1 Ex#.# Pg.#.# Author: Yin Linhai

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\* Take test and attendance marks for a class and calculate the percentage of attendance and test marks and print the \* value out at the end.

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\* Course:Computer Science 201Teacher:Mr Blakey

\* School:Sir Winston Churchill High School, Calgary, Alberta, Canada

\* Language: Java SE 7.0Target Operating System: Java Virtual Machine

\* System:Intel Celeron 3GHz running under Windows 7 IDE: Eclipse 4.2

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**package** test\_1;

**import** java.util.Scanner;

**public** **class** Test\_1 {

/\*\*

\* **@param** args

\*/

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

//declarations

String student1, student2;

**float** attendance1, attendance2, attendanceTotal;

**float** test11, test12, test21, test22, test1T, test2T;

**float** attendancePercent1, test1Percent1, test2Percent1;

**float** attendancePercent2, test1Percent2, test2Percent2;

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

//ask and input students name

System.*out*.println("What is the first student's name?");

student1 = scan.next();

System.*out*.println("What is the second student's name?");

student2 = scan.next();

//ask and input students attendance

System.*out*.println("What was the total number of Math Club Sessions that " + student1 + " attended?");

attendance1 = scan.nextInt();

System.*out*.println("What was the total number of Math Club Sessions that " + student2 + " attended?");

attendance2 = scan.nextInt();

//ask and input total number of attendances

System.*out*.println("How many Math Club sessions in total were there");

attendanceTotal = scan.nextInt();

//ask and input student 1's test marks

System.*out*.println("What was the first test score for " + student1 + "?");

test11 = scan.nextFloat();

System.*out*.println("What was the second test score for " + student1 + "?");

test21 = scan.nextFloat();

//ask and input student 2's test marks

System.*out*.println("What was the first test score for " + student2 + "?");

test12 = scan.nextFloat();

System.*out*.println("What was the second test score for " + student2 + "?");

test22 = scan.nextFloat();

//ask and input test total

System.*out*.println("What was the first test out of?");

test1T = scan.nextFloat();

System.*out*.println("What was the second test out of?");

test2T = scan.nextFloat();

//calculate student 1's percentages

attendancePercent1 = (attendance1/attendanceTotal)\*100;

test1Percent1 = (test11/test1T)\*100;

test2Percent1 = (test21/test2T)\*100;

//calculate student 2's percentages

attendancePercent2 = (attendance2/attendanceTotal)\*100;

test1Percent2 = (test12/test1T)\*100;

test2Percent2 = (test22/test2T)\*100;

//Print out the percentages for review

System.*out*.println("Math Report:\n");

System.*out*.println("Name: Test1 %: Test2 %: Attendance %:");

System.*out*.println(student1 + " " + String.*format*("%5.2f",test1Percent1) + "% " + String.*format*("%5.2f", test2Percent1) + "% " + String.*format*("%5.2f", attendancePercent1) + "%");

System.*out*.println(student2 + " " + String.*format*("%5.2f", test1Percent2) + "% " + String.*format*("%5.2f", test2Percent2) + "% " + String.*format*("%5.2f", attendancePercent2) + "%");

}

}

/\*\*I used string for the student names because a charSequence would be un-yieldy, and string offers convenience.

\* I used float for everything else because they needed to turn into a percent with decimal value, and you can't do that with an integer value.

\* I could’ve used double but I didn’t need numbers that large so I used float instead

\*/

**Console**

What is the first student's name?

Samuel

What is the second student's name?

Alfred

What was the total number of Math Club Sessions that Samuel attended?

10

What was the total number of Math Club Sessions that Alfred attended?

15

How many Math Club sessions in total were there

20

What was the first test score for Samuel?

10

What was the second test score for Samuel?

15

What was the first test score for Alfred?

15

What was the second test score for Alfred?

18

What was the first test out of?

20

What was the second test out of?

20

Math Report:

Name: Test1 %: Test2 %: Attendance %:

Samuel 50.00% 75.00% 50.00%

Alfred 75.00% 90.00% 75.00%

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