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\* Class:GradeConverter ExTT.2 Author: Yin Linhai

\* Version:001Date:Sept 26, 2013

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\* This program takes a person’s name, the test name, their mark, and the test total, and the collates it with the

\* percentage the person got, and his grade as a letter.

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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\_2;

**import** java.util.Scanner;

**public** **class** GradeConverter {

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

//initialize variables

String name, testName, grade;

**int** test, testTotal, input;

**double** percent;

//construct objects

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

Scanner scan1 = **new** Scanner(System.*in*);

**do** {

//ask what they want to do

System.*out*.println("What would you like to do?\n1. Input data\n2. Quit");

input = scan1.nextInt();

**if** (input == 2) {

**break**;

}

//ask for name of student, and store

System.*out*.println("What is the name of the Student?:");

name = scan.nextLine();

//ask for name of test, and store

System.*out*.println("What is the name of the test?:");

testName = scan.nextLine();

//ask for students mark, and store

System.*out*.println("What did the student get on the test?:");

test = scan1.nextInt();

//ask for what the test was out of, and store

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

testTotal = scan1.nextInt();

//solve for the percent the student got

percent = ((**double**)test/(**double**)testTotal)\*100;

//giant decision block to choose for the letter grade

//(can't convert an integer to boolean in a switch statement :( )

**if** (percent>=90) {

//grade is 90% or higher

grade = "A\*";

}

**else**

{

**if** (percent>=80) {

//grade is 80% or higher

grade = "A";

}

**else**

{

**if** (percent>=70) {

//grade is 70% or higher

grade = "B";

}

**else**

{

**if** (percent>=60) {

//grade is 60% or higher

grade = "C";

}

**else**

{

**if** (percent>=50) {

//grade is 50% or higher

grade = "D";

}

**else**

{

//grade is below 50%

grade = "F";

}

}

}

}

}

//print out the information

System.*out*.println("Name: \t" + name);

System.*out*.println("Test Name: \t" + testName);

System.*out*.println("Marks:");

System.*out*.println("Test Score: \t" + test);

System.*out*.println("Test out of: \t" + testTotal);

System.*out*.println("Percentage score:\t" + String.*format*("%5.1f", percent) + "%");

System.*out*.println("Grade Scored: \t" + grade);

} **while**(input!=2);

scan.close();

scan1.close();

}

}

**Output**

What would you like to do?

1. Input data

2. Quit

1

What is the name of the Student?:

Bob Baker

What is the name of the test?:

Math 20-1 Sequences and Series

What did the student get on the test?:

43

What was the test out of?:

50

Name: Bob Baker

Test Name: Math 20-1 Sequences and Series

Marks:

Test Score: 43

Test out of: 50

Percentage score: 86.0%

Grade Scored: A

What would you like to do?

1. Input data

2. Quit

2

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