Greg Witt

Readfiles

Class

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package readfiles;

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Readfiles{

static double gpa;

public void readData(){

File inFile = new File("data1.txt");

try{

Scanner input = new Scanner(inFile);

int count = 0; //intial condition

int sum = 0; // initial condition

String[] parts = new String[2];

String line = input.nextLine(); // start at the first line of the txt file

parts = line.split(""); // split when there is a space

while(!parts[0].equals("X")&&input.hasNext()){ // test of the condition

System.out.println(line); // print the

parts = line.split(" ");

count++; //increase the count

sum += Double.parseDouble(parts[1]); // start storing in the first position

line = input.nextLine(); // move to next line of the txt

}//while

if(count != 0) gpa = (double) sum/count; // if there are more than one calculate average

System.out.println(count + " GPAs Read"); //print the amount of GPAs

input.close(); //close the file IMPORTANT

}//try

catch(FileNotFoundException ex){ //catch the error

System.out.println(ex); // overall error if something goes wrong

System.out.println("Error"); //display the error

}//catch

}//read

public static void main(String[] args) {

Readfiles ans = new Readfiles(); //use the readfiles scanner

ans.readData(); //store the data in the scanner

System.out.printf("Class GPA: %6.2f\n,",gpa); //format to the GPA style percentage

}//main

}//class

Data1.txt

Eric: 89

Greg: 78

Samantha: 92

Gabby: 99

Gilbert: 75

Donald: 42

Pence: 25

Bernie: 100

Hillary: 74

X

Output:

run:

Eric: 89

Greg: 78

Samantha: 92

Gabby: 99

Gilbert: 75

Donald: 42

Pence: 25

Bernie: 100

Hillary: 74

9 GPAs Read

Class GPA: 74.89

,BUILD SUCCESSFUL (total time: 0 seconds)