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\* Class:big\_Bucks ExPrj Pg.43.7-8 Author: Yin Linhai

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\* A program that takes a deposit, and sorts the balances to get the person with the greatest balance

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\* 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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# Bank Account class

**package** big\_Bucks;

**public** **class** BankAccount {

**public** BankAccount(String nm, **double** amt) {

name = nm;

balance=amt;

}

**public** **void** deposit(**double** dp) {

balance += dp;

}

**public** **void** withdraw(**double** wd) {

balance -= wd;

}

**public** String name;

**public** **double** balance;

}

# Tester Class

package big\_Bucks;

import java.text.NumberFormat;

import java.util.ArrayList;

import java.util.Scanner;

public class Tester {

public static void main(String[] args) {

NumberFormat formatter = NumberFormat.getNumberInstance();

formatter.setMinimumFractionDigits(2);

formatter.setMaximumFractionDigits(2);

String name;

ArrayList<BankAccount> aryList = new ArrayList<BankAccount>();

do {

Scanner kbReader = new Scanner(System.in);

System.out.print("Please enter the name to whom the account belongs. (\"Exit\" to abort)");

name = kbReader.nextLine();

if(!name.equalsIgnoreCase("Exit")) {

System.out.print("Please enter the amount of the deposit.");

double amount = kbReader.nextDouble();

System.out.println(" "); //Gives an eye-pleasing blank line

BankAccount account = new BankAccount(name, amount);

aryList.add(account);

}

} while(!name.equalsIgnoreCase("EXIT"));

//Search aryList and print out the name and amount of the largest bank account

BankAccount ba = (BankAccount) aryList.get(0);

double maxBalance = ba.balance;

String maxName = ba.name;

for(int j = 1; j<aryList.size(); j++) {

BankAccount check = (BankAccount) aryList.get(j);

if(maxBalance<check.balance) {

maxBalance = check.balance;

maxName = check.name;

}

}

System.out.println("");

System.out.println("The account with the largest balance belongs to " + maxName + ".");

System.out.println("The ammount is $" + maxBalance);

}

}

**Output:**

Please enter the name to whom the account belongs. ("Exit" to abort)Jim Jones

Please enter the amount of the deposit.186.22

Please enter the name to whom the account belongs. ("Exit" to abort)Bill Gates

Please enter the amount of the deposit.102.15

Please enter the name to whom the account belongs. ("Exit" to abort)Helen Hunt

Please enter the amount of the deposit.1034.02

Please enter the name to whom the account belongs. ("Exit" to abort)Charles Manson

Please enter the amount of the deposit.870.85

Please enter the name to whom the account belongs. ("Exit" to abort)exit

The account with the largest balance belongs to Helen Hunt.

The ammount is $1034.02