Java Refresher Exercise 1

* Create a console based java application for ATM.
* Create data for two accounts and initialize that with some  amount say 10000 (you may use ArrayList to store data for each account) - no database connection is required.
* User will be shown 2 options and prompted to enter 1 option
  + A - Withdraw Money
  + B - Deposit Money
* If either of the above is chosen user will be prompted for account number
* Then it will ask for the amount of money to be withdrawn/deposited
* After the amount is put it will display the available balance.
* Create data for two accounts and initialize that with some amount say 10000 (you may use ArrayList to store data for each account) - no database connection is required.
* Proper validations (like withdrawal amount should be less than available balance) and exception handling like (amount can only be numeric) should be in place.

/////APP CLASS/////

package com.marticus.atm;

import java.util.Scanner;

import java.io.\*;

public class App

{

public static void checkBalance()

{

System.out.println("\tYour current balance is " + BalanceInquiry.getBalance());

}

public static void withdrawMoney()

{

if(BalanceInquiry.balance==0)

{

System.out.println("\tYour current balance is zero.");

}

else if(BalanceInquiry.balance<=500)

{

System.out.println("You do not have sufficient money to withdraw");

}

else if(Withdraw.withdraw > BalanceInquiry.balance)

{

System.out.println("The amount you withdraw is greater than to your balance");

System.out.println("tPlease check the amount you entered.");

}

else

{

BalanceInquiry.balance = BalanceInquiry.balance - Withdraw.withdraw;

System.out.println("\n\tYou withdraw the amount " + Withdraw.withdraw);

}

}

public static void depositMoney()

{

System.out.println("You deposited the amount of " + Deposit.getDeposit());

}

public static void main(String[] args)

{

Scanner read = new Scanner(System.in);

int select = 0;

int choice = 0;

System.out.println("WELCOME TO MY ATM ");

System.out.println();

do

{try

{

do {

System.out.println("\tPlease select ATM Transactions");

System.out.println("\tPress [1] Deposit");

System.out.println("\tPress [2] Withdraw");

System.out.println("\tPress [3] Balance Inquiry");

System.out.println("\tPress [4] Exit");

select = read.nextInt();

if(select>4)

{

System.out.println("\n\tPlease select correct transaction.");

}

else

{

switch (select)

{

case 1:

System.out.print("\n\tEnter the amount of money to deposit: ");

Deposit.deposit = read.nextDouble();

BalanceInquiry.balance = Deposit.deposit + BalanceInquiry.balance;

depositMoney();

break;

case 2:

System.out.print("To withdraw, make sure that you have sufficient balance in your account.\n");

System.out.println();

System.out.print("Enter amount of money to withdraw: ");

Withdraw.withdraw = read.nextDouble();

withdrawMoney();

break;

case 3:

checkBalance();

break;

default:

System.out.print("Transaction exited.");

break;

}

}

}while(select>4);

do {

try

{

System.out.println("\n\tWould you like to try another transaction?");

System.out.println("\n\tPress [1] Yes \n\tPress [2] No");

System.out.print("\tEnter choice: ");

choice = read.nextInt();

if(choice>2)

{

System.out.print("\n\tPlease select correct choice.");

}

}

catch(Exception e)

{

System.out.println("\tError Input! Please enter a number only.");

read = new Scanner(System.in);

System.out.println("\tEnter yout choice:");

choice = read.nextInt();

}

} while(choice>2);

}

catch(Exception e)

{

System.out.println("\tError Input! Please enter a number only.");

read = new Scanner(System.in);

System.out.println("\tEnter yout choice:");

select = read.nextInt();

}

}while(choice<=1);

System.out.println("\tThank you for using this simple ATM Machine.");

}

}

/////////////////BALANCE INQUIRY/////////

**package** com.marticus.atm;

**public** **class** BalanceInquiry **extends** App

{

**static** **double** *balance* = 0;

**public** **void** setBalance(**double** b)

{

*balance* = b;

}

**public** **static** **double** getBalance()

{

**return** *balance*;

}

}

////////////////DEPOSIT/////////

**package** com.marticus.atm;

**public** **class** Deposit **extends** App

{

**static** **double** *deposit*;

**public** **void** setDeposit(**double** d)

{

*deposit* = d;

}

**public** **static** **double** getDeposit()

{

**return** *deposit*;

}

}

//////////////////WITHDRAW/////

**package** com.marticus.atm;

**public** **class** Withdraw **extends** App

{

**static** **double** *withdraw* = 0;

**public** **void** setWithdraw(**double** w)

{

*withdraw* = w;

}

**public** **static** **double** getWithdraw()

{

**return** *withdraw*;

}

}