/\*

Define a class to represent a bank account. Include the following members:

Data Members:

a.Name of the Depositor

b.Account Number

c.Type of Account

d.Balance amount in the account

Data Methods:

a.To assign initial values

b.To deposit an amount

c.To withdraw an amount

d.To display name and balance.

\*/

package practice;

import java.io.\*;

import java.util.\*;

import java.util.Scanner;

import java.util.Random;

class Bank

{

public String nameOfDepositor;

public int accNumber;

public String accType;

public double balanceAmount;

public void assignValues(String nameOfDepositor, String accType, double balanceAmount)

{

this.nameOfDepositor=nameOfDepositor;

this.accType=accType;

this.balanceAmount=balanceAmount;

Random random = new Random();

this.accNumber=random.nextInt(1000000);

System.out.println("Your new account number is: "+accNumber);

}

public void depositAmount(double amount)

{

if(accNumber==0)

System.out.println("!You don't have bank account to deposit\nNote:please assign values to create an account");

else

{

balanceAmount+=amount;

System.out.println("Amount deposited successfully...");

}

}

public void withdrawAmount(double amount)

{

if(accNumber==0)

System.out.println("!You don't have bank account to credit\nNote:please assign values to create an account");

else if(balanceAmount>amount)

{

balanceAmount-=amount;

System.out.println("Amount credited successfully...");

}

else

System.out.println("! Insufficient balance");

}

public void displayDetails()

{

if(accNumber==0)

System.out.println("!You don't have bank account\nNote:please assign values to create an account");

else

{

System.out.println("Name of the Depositor: "+nameOfDepositor);

System.out.println("Balance amount in the account: "+balanceAmount);

}

}

public void getInput()

{

System.out.println("How can i help you?");

System.out.println("1. Open account");

System.out.println("2. Deposit amount");

System.out.println("3. Withdraw amount");

System.out.println("4. Account details");

System.out.println("5. Exit");

System.out.print("Please choose from above (Eg.2): ");

}

}

//code copied from https://wp.me/pc8BF4-19m

class Main

{

public static void main(String[] s) throws IOException

{

System.out.println("::::::::::WELCOME TO XYZ BANK::::::::::");

Bank newAccount=new Bank();

Scanner scan=new Scanner(System.in);

boolean process=true;

int continueState=0;

while(continueState==0)

{

newAccount.getInput();

int currentProcess=scan.nextInt();

if(currentProcess==1)

{

System.out.print("Enter your name: ");

String nameOfDepositor=scan.next();

System.out.print("Enter your account type: ");

String accType=scan.next();

System.out.print("Enter your opening balance: ");

double balanceAmount=scan.nextDouble();

newAccount.assignValues(nameOfDepositor, accType, balanceAmount);

}

else if(currentProcess==2)

{

System.out.print("Enter amount to deposit: ");

newAccount.depositAmount(scan.nextDouble());

}

else if(currentProcess==3)

{

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

newAccount.withdrawAmount(scan.nextDouble());

}

else if(currentProcess==4)

{

newAccount.displayDetails();

}

else if(currentProcess==5)

{

continueState=1;

System.out.println("THANK YOU");

}

System.out.print ("press 0 to continue... ");

continueState=scan.nextInt();

}

}

}