import java.util.\*;

//Bank class

class Bank{

Bank(){

System.out.println("BANK");

}

Scanner B\_inp = new Scanner(System.in);

}

//Account class

class Account extends Bank{

int A\_no;

String A\_Name = new String();

int A\_accType;

void getAccData(){

System.out.println("Enter the Account Name : ");

A\_Name = B\_inp.nextLine();

System.out.println("Enter the Account Type : (1.for Savings account 2.Current account)");

A\_accType = B\_inp.nextInt();

System.out.println("Enter The Account number :");

A\_no = B\_inp.nextInt();

}

}

//SaveAcc class

class SaveAcc extends Account{

double Bal;

int Intrest = 3;

void getDeposite(int Depo, SaveAcc ob) {

ob.Bal = ob.Bal+Depo;

System.out.println("The Balance amount after deposition is : " +ob.Bal);

}

void getBal(SaveAcc ob) {

if (ob.Bal >= 5000) {

System.out.println("The balance amount is " + ob.Bal);

} else if (ob.Bal<5000 && ob.Bal!=0) {

ob.Bal = ob.Bal - 10;

System.out.println("You dont have minimum Balance ");

System.out.println("The balance amount after the charges deduction is " + ob.Bal);

}

else if(ob.Bal==0){

System.out.println("Balnce : 0");

}

}

void getBalintrest(SaveAcc ob){

ob.Bal= ob.Bal+(0.03)\*(ob.Bal);

System.out.println("The balance amt after computing the intrest is "+ ob.Bal) ;

}

void getWithdraw(SaveAcc ob,int WithD){

if(WithD<=ob.Bal){

ob.Bal = ob.Bal - WithD;

System.out.println("Your current balance after the withdrawal is " + ob.Bal);

}

else{

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

}

}

void GetACCinfo(SaveAcc ob, String Name, int No){

System.out.println("Your Account Details are : ");

System.out.println("NAME :" + Name);

System.out.println("AccNO : "+ No);

System.out.println("AccType : Savings Account");

System.out.println("Current balance "+ob.Bal);

}

}

//Curr class

class CurrACC extends Account{

double Bal;

void getDeposite(int Depo,CurrACC ob) {

ob.Bal = ob.Bal + Depo;

System.out.println("The Balance amount after deposition is : " + ob.Bal);

}

void getBal(CurrACC ob) {

if(ob.Bal>=5000){

System.out.println("The balance amount is " + ob.Bal);

}

else if(ob.Bal < 5000 && ob.Bal != 0){

ob.Bal=ob.Bal-10;

System.out.println("You dont have minimum Balance ");

System.out.println("The balance amount after the charges deduction is " + ob.Bal);

}

else if (ob.Bal == 0) {

System.out.println("Balnce : 0");

}

}

void getWithdraw(int WithD,CurrACC ob) {

if (WithD <= ob.Bal) {

ob.Bal = ob.Bal - WithD;

System.out.println("Your current balance after the withdrawal is " + ob.Bal);

} else {

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

}

}

void GetACCinfo(CurrACC ob , String Name , int No ) {

System.out.println("Your Account Details are : ");

System.out.println("NAME :" + Name);

System.out.println("AccNO : "+ No);

System.out.println("AccType : Current Account");

System.out.println("Current balance " + ob.Bal);

}

}

//Main class

public class App {

public static void main(String[] args) throws Exception {

Scanner M\_inp = new Scanner(System.in);

System.out.println("\*\*\*\*\*Welcome to Bank of KGF Service\*\*\*\*\*");

System.out.println("Please enter the information below :");

Account A1= new Account();

A1.getAccData();

if(A1.A\_accType==1){

SaveAcc S1 = new SaveAcc();

System.out.println("Savings Account created Successfully");

System.out.println("Enter the corresponding option to Proceed further");

for(;;){

System.out.println(

"1.Deposite\n2.Balance\n3.Withdrawal\n4.Balance with intrest\n5.To get your Account INFO\nAny other key to exit");

int c = M\_inp.nextInt();

switch (c) {

case 1:

System.out.println("Enter the amount to be Deposited");

int Depo = M\_inp.nextInt();

S1.getDeposite(Depo, S1);

break;

case 2: S1.getBal(S1);

break;

case 3:

System.out.println("Enter the amount for Wthdrawal");

int WithD = M\_inp.nextInt();

S1.getWithdraw(S1, WithD);

break;

case 4:

S1.getBalintrest(S1);

break;

case 5:

S1.GetACCinfo(S1 , A1.A\_Name , A1.A\_no);

break;

default:

System.exit(0);

break;

}

}

}

else if(A1.A\_accType==2){

CurrACC C1 = new CurrACC();

System.out.println("Current Account created Successfully");

System.out.println("Enter the corresponding option to Proceed further");

for (;;) {

System.out.println("1.Deposite\n2.Balance\n3.Withdrawal\n4.4To get your Account INFO\nAny other key to exit");

int c = M\_inp.nextInt();

switch (c) {

case 1:

System.out.println("Enter the amount to be Deposited");

int Depo = M\_inp.nextInt();

C1.getDeposite(Depo, C1);

break;

case 2:

C1.getBal(C1);

break;

case 3:

System.out.println("Enter the amount for Wthdrawal");

int WithD = M\_inp.nextInt();

C1.getWithdraw(WithD, C1);

break;

case 4:

C1.GetACCinfo(C1, A1.A\_Name, A1.A\_no);

break;

default:

System.exit(0);

break;

}

}

}

else{

System.out.println("Service Terminated");

}

M\_inp.close();

}

}

