import java.util.Scanner;

public class account {

static Scanner sc = new Scanner(System.in);

String cn, an, at;

int ano;

void cheque() {

System.out.println("CHEQUE FACILITY!");

}

void deposit() {

System.out.println("DEPOSIT MONEY!");

}

void interest() {

System.out.println("INTEREST CHECK!");

}

void withdrawal() {

System.out.println("WITHDRAW MONEY!");

}

void min() {

System.out.println("MINIMUM AMOUNT CHECK!");

}

void display() {

System.out.println("DISPLAY AMOUNT!");

}

void input() {

System.out.println("Enter customer's name : ");

cn = sc.nextLine();

System.out.println("Enter account name : ");

an = sc.nextLine();

System.out.println("Enter account no : ");

ano = sc.nextInt();

sc.nextLine();

System.out.println("Enter account type (savings/current) : ");

at = sc.nextLine();

}

void show() {

System.out.println("\nDETAILS :-\nCustomer's name : " + cn + "\nAccount name : " + an + "\nAccount No. : " + ano

+ "\nAccount type : " + at);

}

public static void main(String args[]) {

account a = new account();

savings s = new savings();

current c = new current();

a.input();

a.show();

int b;

if ("savings".equals(a.at)) {

System.out.println("MENU :-\n1. DEPOSIT MONEY \n 2. WITHDRAW MONEY \n3. CHECK INTEREST \n4. EXIT\n");

do {

System.out.println("Enter choice : ");

b = sc.nextInt();

switch (b) {

case 1:

s.deposit();

break;

case 2:

s.withdrawal();

break;

case 3:

s.interest();

break;

case 4:

System.out.println("THANKYOU FOR ACCESSING OUR SOFTWARE!");

System.exit(0);

default:

System.out.println("Wrong Choice!");

}

} while (b != 4);

} else if ("current".equals(a.at))

c.cheque();

}

}public class savings {

public static int bal=0;

Scanner sc=new Scanner(System.in);

void deposit()

{

System.out.println("Account Balance : Rs. "+bal);

if(bal<=0)

System.out.println("MINIMUM DEPOSIT : Rs. 1000/-");

System.out.println("Enter deposit amount : Rs. ");

int dep=sc.nextInt();

if(dep<1000)

{

System.out.println("enter>1000");

deposit();

}

bal=bal+dep;

display();

}

void display()

{

System.out.println("Updated balance : Rs. "+bal+"/-");

}

void interest()

{

double r=0.05;

System.out.println("INTEREST RATE : 5% per annum");

System.out.println("Enter time in no. of years : ");

int y=sc.nextInt();

double intr=bal\*(Math.pow((1+r),y));

System.out.println("Interest Amount : Rs. "+intr+"/-");

System.out.println("Overall Balance after "+y+"years : Rs. "+(bal+intr)+"/-");

}

void withdrawal()

{

System.out.println("Enter amount of money you wish to withdraw : Rs. ");

int w=sc.nextInt();

if(w<bal)

{

System.out.println("Money withdrawn!");

bal=bal-w;

display();

}

else

System.out.println("ERROR! Money withdrawn is greater than deposited money!");

}

}

public class current extends account {

savings s = new savings();

void cheque()

{

System.out.println("This account provides the cheque-book facility!");

System.out.println("Your current balance is : Rs. "+savings.bal+"/-");

if(savings.bal < 1000)

min();

System.out.println("Do you wish to deposit amount?(1/0)");

int a=sc.nextInt();

if(a==1)

s.deposit();

if(savings.bal<5000)

System.out.println("You are not permitted to access this facility!");

else

System.out.println("You can access this facility!");

System.out.println("Thanks for accessing this facility!");

}

void min()

{

System.out.println("Your balance "+savings.bal+" is less than the required needs(Rs. 1000/- minimum) !");

System.out.println("PENALTY IMPOSED : Rs. 500/-");

System.out.println(" Deposit amount Rs. "+(1000-savings.bal)+" in bank !");

s.deposit();

savings.bal=savings.bal-500;

System.out.println("Updated Balance after penalty charges : "+savings.bal);

}

}