import java.util.Scanner;

public class Account{

private String accName;

private String acId;

private int balance;

Account(){

//adding sender information here

accName="Garbage";

acId="garbage";

balance=40000;

};

Account(String accName, String acId){

this.accName=accName;

this.acId=acId;

}

public void setAccName(String accName){this.accName=accName;}

public void setAcId(String acId){this.acId=acId;}

public void setBalance(int balance){this.balance = balance;}

public String getAccName(){return accName;}

public String getAcId(){return acId;}

public int getBalance(){return balance;}

public int deposit(int amount){

balance +=amount;

System.out.println("Your deposite amount : "+amount);

System.out.println("Balance : "+balance);

return balance;

}

public int withdraw(int amount){

balance -=amount;

System.out.println("Your withdraw amount : "+amount);

System.out.println("Balance : "+balance);

return balance;

}

public void showInfo()

{

System.out.println("Account Name :" + accName);

System.out.println("Account id :" + acId);

System.out.println("Balance :" + balance);

}

static Transaction transaction[] = new Transaction[100] ;

static int totalNumberOfTransaction = 0;

public void addTransaction(Account sender, Account receiver, int amount)

{

transaction[totalNumberOfTransaction] = new Transaction(sender , receiver, amount);

totalNumberOfTransaction++;

}

public void transfer(int amount, Account receiver){

addTransaction(this, receiver, amount);

int y = receiver.deposit(amount);

System.out.println("Transfer Completed");

System.out.println("Balance of "+this.accName+" is: "+this.balance);

System.out.println("Balance of "+receiver.accName+" is: "+receiver.balance);

}

public static void main(String[]args){

Scanner input = new Scanner(System.in);

Account sender = new Account();

Account receiver = new Account();

sender.setAccName("Asif");

sender.setAcId("2296");

sender.setBalance(500000);

receiver.setAccName("Neloy");

receiver.setAcId("4499");

receiver.setBalance(10000);

START:

while(true){

System.out.println("\n\tWelcome to Sonali Bank LTD");

System.out.println("What do you want to do?");

System.out.println("1. Deposit \n2. Withdraw \n3. Transaction\n4. View information\n5. Continue\n6. Exit");

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

int user = input.nextInt();

switch(user)

{

case 1:

System.out.print("\nEnter deposit amount : ");

int x = input.nextInt();

sender.deposit(x);

break;

case 2:

System.out.print("\nEnter withdraw amount : ");

int w = input.nextInt();

sender.withdraw(w);

break;

case 3:

System.out.print("\nEnter transfer amount : ");

int h = input.nextInt();

sender.transfer(h,receiver);

break;

case 4 :

System.out.println("\nSender Account information");

sender.showInfo();

System.out.println("Receiver Account information");

receiver.showInfo();

break;

case 5 :

continue START;

case 6:

break START;

}

}

}

}

public class Transaction extends Account{

Account sender;

Account receiver;

int amount;

Transaction(){};

Transaction(Account sender, Account receiver, int amount){

this.amount=amount;

this.receiver=receiver;

this.sender=sender;

}

public void setSender(Account sender){this.sender = sender;}

public void setReceiver(Account receiver){this.receiver = receiver;}

public void showInfo(){

System.out.println("Transacted amount :" +amount);

System.out.println("Sender Account name :" +sender.getAccName());

System.out.println("Sender Account id :" +sender.getAcId());

System.out.println("Receiver Account name :" +receiver.getAccName());

System.out.println("Receiver Account id :" +receiver.getAcId()+"\n");

}

}