import java.util.\*;

public class ATM {

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

static ArrayList<String> history = new ArrayList<String>();

static int balance = 50000;

static String userid = "Manoj143";

static int userpin = 5555;

public static void main(String[] args) {

System.out.println("===================");

System.out.println("Welcome to the ATM");

System.out.println("===================");

while (true) {

System.out.println("Enter your userid");

String u = sc.next();

System.out.println("Enter your pin");

int p = sc.nextInt();

if (validate(u, p)) {

System.out.println("Successfully Logged In");

System.out.println();

displayscreen();

break;

}

}

}

public static boolean validate(String user, int pin) {

if (user.equals(userid)) {

if (pin == userpin)

return true;

else {

System.out.println("Enter correct pin");

return false;

}

} else {

System.out.println("Enter correct userid");

return false;

}

}

public static void displayscreen() {

while (true) {

System.out.println("1. Transaction History");

System.out.println("2. Withdraw");

System.out.println("3. Deposit");

System.out.println("4. Transfer");

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

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

int c = sc.nextInt();

switch (c) {

case 1:

System.out.println("Transaction History");

transferHistory();

System.out.println();

break;

case 2:

System.out.println("Enter amount to be withdrawn");

int amt = sc.nextInt();

withdraw(amt);

System.out.println();

break;

case 3:

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

int a = sc.nextInt();

balance += a;

history.add("Deposited " + a);

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

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

System.out.println();

break;

case 4:

System.out.println("Enter account number of the person to transfer the amount");

int acc = sc.nextInt();

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

int amount = sc.nextInt();

transfer(amount, acc);

System.out.println();

break;

case 5:

System.out.println("Thank you for using the service");

System.exit(0);

break;

default:

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

break;

}

}

}

public static void withdraw(int amount) {

if (balance < amount) {

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

return;

} else {

balance = balance - amount;

System.out.println("Remaining Balance = " + balance);

System.out.println("Collect your amount");

history.add("Withdrawn " + amount);

return;

}

}

public static void transfer(int amt, int account) {

if (balance < amt) {

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

return;

} else {

balance = balance - amt;

System.out.println("Remaining Balance = " + balance);

System.out.println("Amount Transferred to this account " + account + " successfully");

history.add("Transferred to the account " + account + " a amount of " + amt);

return;

}

}

public static void transferHistory(){

if(history.size() == 0) {

System.out.println("No transaction in this session");

return;

}

for (int i=0;i<history.size();i++)

{

System.out.println(history.get(i));

}

return;

}

}