import java.util.Scanner**;**class Account{  
 protected String u\_id**;** protected String u\_p**;** Scanner sc = new Scanner(System.*in*)**;** void createAcc(){  
 System.*out*.println("Enter Username:")**;** u\_id = sc.nextLine()**;** System.*out*.println("Enter Password:")**;** u\_p = sc.nextLine()**;** System.*out*.println("Congratulations!! Account has been created Success!!")**;** }  
}  
  
class LoginAcc1 extends Account{  
 private String id**;** private String p**;** void login(){  
 do{  
 System.*out*.println("Enter Username:")**;** id = sc.nextLine()**;** if (u\_id.equals(id)){  
 do{  
 System.*out*.println("Enter password:")**;** p = sc.nextLine()**;** if(p.equals(u\_p)){  
 System.*out*.println("Login in Successed!!")**;** }else{  
 System.*out*.println("Wrong Password, Please enter correct one ")**;** }  
 } while(p.equals(u\_p) == false)**;** }else {  
 System.*out*.println("Wrong Password, Please Enter correct one")**;** }  
 }while(u\_id.equals(id) == false)**;** }  
}  
  
class Deposit1{  
 int amount**;** int balance = **100000;** int prevtransaction = **0;** String Transactionhistory = ""**;** Scanner sc = new Scanner(System.*in*)**;** void Display(){  
 System.*out*.println("Enter Amount to be Deposited:")**;** amount = sc.nextInt()**;** if (amount != **0**){  
 prevtransaction++**;** balance = balance+amount**;** prevtransaction = amount**;** String str = amount + "rs deposited\n"**;** Transactionhistory = Transactionhistory.concat(str)**;** System.*out*.println("Amount is Successfully Deposited!!!")**;** }  
 }  
}  
  
class Withdraw1 extends Deposit1{  
  
 void cash(){  
 System.*out*.println("Enter amount to be withdrawed:")**;** amount = sc.nextInt()**;** if(balance > amount ){  
 if(amount <= **20000**){  
 prevtransaction++**;** balance = balance - amount**;** prevtransaction = prevtransaction - amount**;** System.*out*.println("Amount withdraw successfully")**;** String str = amount + "rs withdrawed\n"**;** Transactionhistory = Transactionhistory.concat(str)**;** } else{  
 System.*out*.println("Sorry !!.....Limit is 20000")**;** }  
 }else {  
 System.*out*.println("Insufficient amount to withdraw !")**;** }  
 }  
}  
  
class Transfer1 extends Withdraw1{  
 void forward(){  
 int bank\_acc**;** int ac**;** int r\_accbalance = **0;** System.*out*.println("Enter amount to be transferred:")**;** amount = sc.nextInt()**;** if(balance < amount){  
 System.*out*.println("Oops !! You have not sufficient balance in your account to transfer!")**;** }else {  
 System.*out*.println("Enter the account number of the receiver:")**;** ac = sc.nextInt()**;** this.balance = this.balance - amount**;** r\_accbalance += amount**;** System.*out*.println("Your account balance has became $"+this.balance)**;** System.*out*.println("Account balance of receiver becomes $" +r\_accbalance)**;** String str = amount + "Rs Transffered"**;** Transactionhistory = Transactionhistory.concat(str)**;** }  
 }  
}  
  
class CheckBalance extends Transfer1{  
 void check(){  
 System.*out*.println("\n Available Balance:" +balance +"Rs")**;** }  
  
}  
  
class TransactionHistory extends CheckBalance{  
 void history() {  
 if (prevtransaction == **0**){  
 System.*out*.println("\nEmpty")**;** } else {  
  
 System.*out*.println("\n" +Transactionhistory)**;** }  
 }  
}  
  
public class AtmInterface {  
 public static void main(String[] args) {  
 System.*out*.println("----------Welcome to State Bank of India ----------")**;** LoginAcc1 la = new LoginAcc1()**;** la.createAcc()**;** System.*out*.println("\*\*\*\*\*\*\*\*Welcome Back to SBI\*\*\*\*\*\*\*\*\*\*\*\*")**;** System.*out*.println("======================================")**;** System.*out*.println("\*\*\*\*\*\*\*\*Welcome to Login Sector\*\*\*\*\*\*\*")**;** la.login()**;** int ch**;** Scanner sc = new Scanner(System.*in*)**;** TransactionHistory t = new TransactionHistory()**;** while(true){  
 System.*out*.println("\n")**;** System.*out*.println("\n")**;** System.*out*.println("1.Check Balance ")**;** System.*out*.println("2.Deposit")**;** System.*out*.println("3.Withdraw")**;** System.*out*.println("4.previous Transaction")**;** System.*out*.println("Transfer")**;** System.*out*.println("6.Exit")**;** System.*out*.println("============================")**;** System.*out*.println("Enter your choice:")**;** System.*out*.println("============================")**;** ch = sc.nextInt()**;** switch(ch){  
 case **1**:  
 t.check()**;** break**;** case **2**:  
  
 t.Display()**;** break**;** case **3**:  
  
 t.cash()**;** break**;** case **4**:  
  
 t.history()**;** break**;** case **5**:  
  
 t.forward()**;** break**;** case **6**:  
 System.*out*.println("Thank You for utilizing our service")**;** System.*exit*(ch)**;** break**;** default:  
 System.*out*.println("Enter valid choice!!")**;** }  
 }  
 }  
}