Sign up

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oibsip\_3/AtmInterface.java

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1 contributor

234 lines (202 sloc) 5.46 KB

import java.util.Scanner;

class BankAccount {

String name;

String userName;

String password;

String accountNo;

float balance = 100000f;

int transactions = 0;

String transactionHistory = "";

// BankAccount(String name, String userName, String password, String accountNo) {

// this.name = name;

// this.userName = userName;

// this.password = password;

// this.accountNo = accountNo;

// }

public void register() {

Scanner sc = new Scanner(System.in);

System.out.print("\nEnter Your Name - ");

this.name = sc.nextLine();

System.out.print("\nEnter Your Username - ");

this.userName = sc.nextLine();

System.out.print("\nEnter Your Password - ");

this.password = sc.nextLine();

System.out.print("\nEnter Your Account Number - ");

this.accountNo = sc.nextLine();

System.out.println("\nRegistration completed..kindly login");

}

public boolean login() {

boolean isLogin = false;

Scanner sc = new Scanner(System.in);

while ( !isLogin ) {

System.out.print("\nEnter Your Username - ");

String Username = sc.nextLine();

if ( Username.equals(userName) ) {

while ( !isLogin ) {

System.out.print("\nEnter Your Password - ");

String Password = sc.nextLine();

if ( Password.equals(password) ) {

System.out.print("\nLogin successful!!");

isLogin = true;

}

else {

System.out.println("\nIncorrect Password");

}

}

}

else {

System.out.println("\nUsername not found");

}

}

return isLogin;

}

public void withdraw() {

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

Scanner sc = new Scanner(System.in);

float amount = sc.nextFloat();

try {

if ( balance >= amount ) {

transactions++;

balance -= amount;

System.out.println("\nWithdraw Successfully");

String str = amount + " Rs Withdrawed\n";

transactionHistory = transactionHistory.concat(str);

}

else {

System.out.println("\nInsufficient Balance");

}

}

catch ( Exception e) {

}

}

public void deposit() {

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

Scanner sc = new Scanner(System.in);

float amount = sc.nextFloat();

try {

if ( amount <= 100000f ) {

transactions++;

balance += amount;

System.out.println("\nSuccessfully Deposited");

String str = amount + " Rs deposited\n";

transactionHistory = transactionHistory.concat(str);

}

else {

System.out.println("\nSorry...Limit is 100000.00");

}

}

catch ( Exception e) {

}

}

public void transfer() {

Scanner sc = new Scanner(System.in);

System.out.print("\nEnter Receipent's Name - ");

String receipent = sc.nextLine();

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

float amount = sc.nextFloat();

try {

if ( balance >= amount ) {

if ( amount <= 50000f ) {

transactions++;

balance -= amount;

System.out.println("\nSuccessfully Transfered to " + receipent);

String str = amount + " Rs transfered to " + receipent + "\n";

transactionHistory = transactionHistory.concat(str);

}

else {

System.out.println("\nSorry...Limit is 50000.00");

}

}

else {

System.out.println("\nInsufficient Balance");

}

}

catch ( Exception e) {

}

}

public void checkBalance() {

System.out.println("\n" + balance + " Rs");

}

public void transHistory() {

if ( transactions == 0 ) {

System.out.println("\nEmpty");

}

else {

System.out.println("\n" + transactionHistory);

}

}

}

class AtmInterface {

public static int takeIntegerInput(int limit) {

int input = 0;

boolean flag = false;

while ( !flag ) {

try {

Scanner sc = new Scanner(System.in);

input = sc.nextInt();

flag = true;

if ( flag && input > limit || input < 1 ) {

System.out.println("Choose the number between 1 to " + limit);

flag = false;

}

}

catch ( Exception e ) {

System.out.println("Enter only integer value");

flag = false;

}

};

return input;

}

public static void main(String[] args) {

System.out.println("\n\*\*\*\*\*\*\*\*\*WELCOME TO Oasis ATM SYSTEM\*\*\*\*\*\*\*\*\*\n");

System.out.println("1.Register \n2.Exit");

System.out.print("Enter Your Choice - ");

int choice = takeIntegerInput(2);

if ( choice == 1 ) {

BankAccount b = new BankAccount();

b.register();

while(true) {

System.out.println("\n1.Login \n2.Exit");

System.out.print("Enter Your Choice - ");

int ch = takeIntegerInput(2);

if ( ch == 1 ) {

if (b.login()) {

System.out.println("\n\n\*\*\*\*\*\*\*\*\*\*WELCOME BACK " + b.name + " \*\*\*\*\*\*\*\*\*\*\n");

boolean isFinished = false;

while (!isFinished) {

System.out.println("\n1.Withdraw \n2.Deposit \n3.Transfer \n4.Check Balance \n5.Transaction History \n6.Exit");

System.out.print("\nEnter Your Choice - ");

int c = takeIntegerInput(6);

switch(c) {

case 1:

b.withdraw();

break;

case 2:

b.deposit();

break;

case 3:

b.transfer();

break;

case 4:

b.checkBalance();

break;

case 5:

b.transHistory();

break;

case 6:

isFinished = true;

break;

}

}

}

}

else {

System.exit(0);

}

}

}

else {

System.exit(0);

}

}

}