JARCC: A MINI ATM SYSTEM

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MAY 2023

ABOUT JARCC: A MINI ATM SYSTEM

JARCC is an atm system derived from the first name initial of the developers. Its purpose is to cater financial services. The system comprises five transaction options: deposit, withdraw, transfer funds, change pin; and one exit option. In addtition, the system accepts two account types: savings and checking. To know more about the JARCC atm system, here is the breakdown on how it works.

At first, we can see a welcome sign of the name of the system. After that, it prompts the user to enter his name and pin number. Next, the system asks the user if he wants to read the terms and conditions. There are two options: 1 and 0. If the user presses 1, the system hovers to the terms and conditions, otherwise it would just display a blank space. After asking the user for terms and conditions, the system then displays the name of the user and his corresponding pin number. Then, the systems hovers the user to the menu options comprising the five transaction options and the exit option.

The first option is the deposit menu. The system prompts the user to choose an account type. After choosing, it shows the current balance of that specific account and asks the user to enter the minimum deposit amount which is 100 pesos. If the deposit is successful, the system shows a successful sign and automatically displays the new balance of that account. Otherwise, it would show that the deposit is unsuccesful.

The second menu is the withdraw option. The system prompts the user to choose an account type. After choosing, it shows the current balance of that specific account and asks the user to enter the minimum withdraw amount which is 500 pesos. If successful, the system shows a successful sign and automatically displays the new balance of that account. Otherwise, it would display an unsuccessful message either because of minimum withdraw amount is not met or the balance of the account is insufficient.

The third option is the transfer funds menu. The system prompts the user to choose an account type. After choosing, it shows the current balance of that specific account and asks the user to enter the minimum amount to be transferred to the other account (from savings to checking or vice versa) which is 1000 pesos. If successful, the system shows a successful sign and automatically displays the new balance of the two accounts. Otherwise, it would display an unsuccessful message either because of minimum transfer amount is not met or the balance of the account is insufficient.

The fourth option is the change pin menu. The system prompts the user to enter a new pin. If the standard pin requirement is met, then the system displays the new pin. Through try and catch, it allows the system to have a requirement on limiting the user to enter only digits. Otherwise, it would continue to display and error message and asks the user to enter digits only.

Lastly, if the user doesn't have a transaction anymore, he can directly press the last option to exit in the system.

The menu options of the JARCC atm system is user-friendly because it allows users to have ease of access in making financial transactions. For example, after making a withdraw or transaction, the system would automatically go back to the menu of options, which provides comfortability to the user. Furthermore, the system respects the user on having freedom to read the terms and conditions or not. Hovever, it is advisable to read it in order to understand the system well.

SCREENSHOT CODE

Source | History

```java
package Olandria_ChristianOOP;

public class ATM {
    String type;
    double balance, rate;
    //create methods

    public void welcome(String n, int p){
        System.out.println("\nWelcome to JARCC!\nAccount Name: " + n);
        System.out.println("PIN Number: " + p);
    }

    public void TermsAndConditions(){
        System.out.print("Terms and Condtions!\n1. The system accepts two account types: "
            + "Savings and Checking Account.\n2. The system offers 5 transactions: "
            + "deposit, withdraw, transfer funds, change pin, and balance inquiry.\n3. The"
            + " system requires minimum deposit amount: 100 pesos for the savings or "
            + "checking account.\n4. The system requires minimum withdraw amount: 500"
            + " pesos for savings or checking account.\n" + "5. The system requires "
            + "minimum transfer amount: 1000 pesos for both savings and checking account.\n"
            + "6. The system has annual interest rate: 0.03 for checking account and "
            + "2.00 for savings account.");
    }

    public void deposit(double depo){
        balance += depo;
    }

    public void withdraw(double with){
        balance -= with;
    }
```
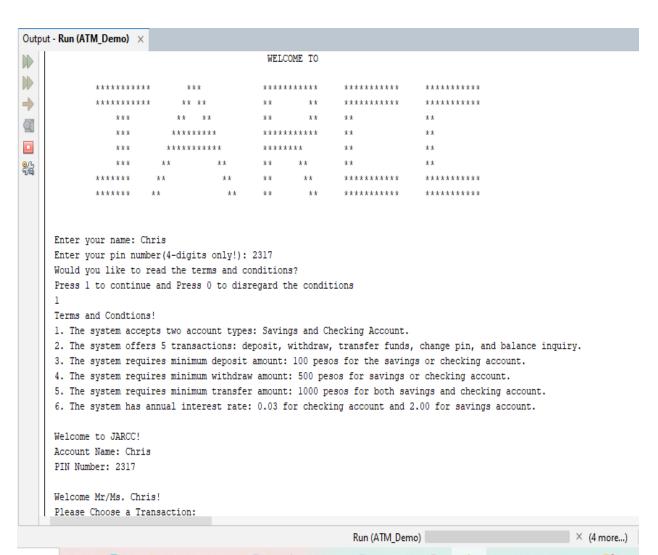
Run (ATM_Demo) ━━━━━━ × (3 more...) 9:31 INS

Source | History

```java
package Olandria_ChristianOOP;

import java.util.Scanner;
import java.io.BufferedReader;
import java.io.InputStreamReader;



public class ATM_Demo {
    public static void main(String[] args){

        Scanner sc = new Scanner(System.in);

        String name;
        int pin;
        int newpin = 0;
        double deposit, withdraw;
        double balance = 0;

        ATM obj1 = new ATM();
        Welcome_Figures obj2 = new Welcome_Figures();

        System.out.println("\t\t\t\t\t  WELCOME TO\n");

        obj2.JARCC();
        System.out.print("\n");
        //asks user for name and pin
        System.out.print("\nEnter your name: ");
        name = sc.nextLine();

        System.out.print("Enter your pin number(4-digits only!): ");
        pin = sc.nextInt();
```

Run (ATM_Demo) ━━━━━━ × (3 more...) 44:29 INS

SCREENSHOT OUTPUT

```
                                    WELCOME TO

        **********          ***          **********     **********    **********
        **********         ** **         **      **     **********    **********
           ***            **   **         **      **     **
           ***           *********       **********     **           **
           ***          **********       ********       **           **
           ***         **       **       **    **       **           **
        ******        **         **       **      **     **********    **********
        ******       **           **       **      **     **********    **********


    Enter your name: Chris
    Enter your pin number(4-digits only!): 2365
    Would you like to read the terms and conditions?
    Press 1 to continue and Press 0 to disregard the conditions
    0


    Welcome to JARCC!
    Account Name: Chris
    PIN Number: 2365

    Welcome Mr/Ms. Chris !
    Please Choose a Transaction:
    1. Deposit
    2. Withdraw
    3. Transfer Funds
    4. Change Pin
    5. Balance Inquiry
    6. Exit
```

Run (ATM_Demo)

```
                                    WELCOME TO

        **********          ***          **********     **********    **********
        **********         ** **         **      **     **********    **********
           ***            **   **         **      **     **           **
           ***           *********       **********     **           **
           ***          **********       ********       **           **
           ***         **       **       **    **       **           **
        ******        **         **       **      **     **********    **********
        ******       **           **       **      **     **********    **********


    Enter your name: Chris
    Enter your pin number(4-digits only!): 2317
    Would you like to read the terms and conditions?
    Press 1 to continue and Press 0 to disregard the conditions
    1
    Terms and Condtions!
    1. The system accepts two account types: Savings and Checking Account.
    2. The system offers 5 transactions: deposit, withdraw, transfer funds, change pin, and balance inquiry.
    3. The system requires minimum deposit amount: 100 pesos for the savings or checking account.
    4. The system requires minimum withdraw amount: 500 pesos for savings or checking account.
    5. The system requires minimum transfer amount: 1000 pesos for both savings and checking account.
    6. The system has annual interest rate: 0.03 for checking account and 2.00 for savings account.


    Welcome to JARCC!
    Account Name: Chris
    PIN Number: 2317

    Welcome Mr/Ms. Chris!
    Please Choose a Transaction:
```

Run (ATM_Demo)   × (4 more...)

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