Screenshots for each type of transactions (Simulate the transactions)

1. Check Balance

```
C:\Users\wugg\Downloads\gianna-cantor>java atm
===Welcome to At The Moment ATM!===

Select an account:
(1) a
(2) b
(3) c
(4) d

Enter account number (1-4): 1
Enter 6-digit PIN: 123456

Welcome, a!

Please select a transaction:
--------------------------
(1) Check Balance
(2) Withdraw
(3) Deposit
(4) Pay Bills
(5) Exit

1

Your account balance at the moment is
=====P5000.0=====

Please select a transaction:
--------------------------
(1) Check Balance
(2) Withdraw
(3) Deposit
(4) Pay Bills
(5) Exit
```

2. Withdraw

```
Please select a transaction:
--------------------------
(1) Check Balance
(2) Withdraw
(3) Deposit
(4) Pay Bills
(5) Exit

2

Withdraw funds from account
--------------------------
Enter amount: P1500

Transaction success!

Your balance at the moment is
=====P3500.0=====
```

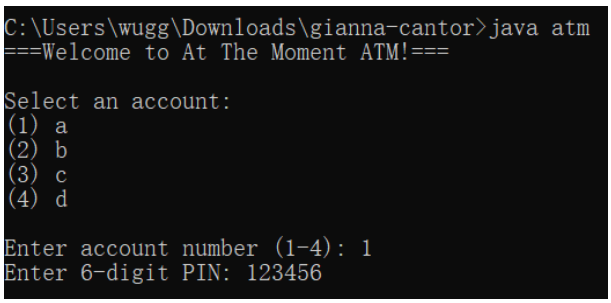
3. Deposit

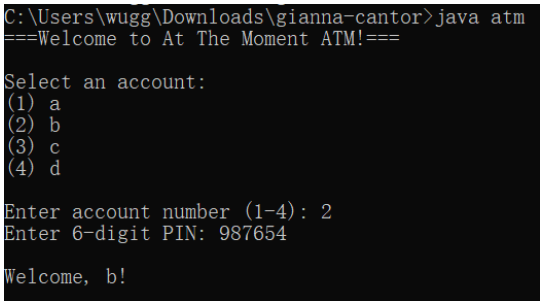
```
Please select a transaction:
--------------------------
(1) Check Balance
(2) Withdraw
(3) Deposit
(4) Pay Bills
(5) Exit

3

Deposit funds to account
-----------------------
Enter amount: P500

Transaction success!

Your balance at the moment is
=====P4000.0=====
```

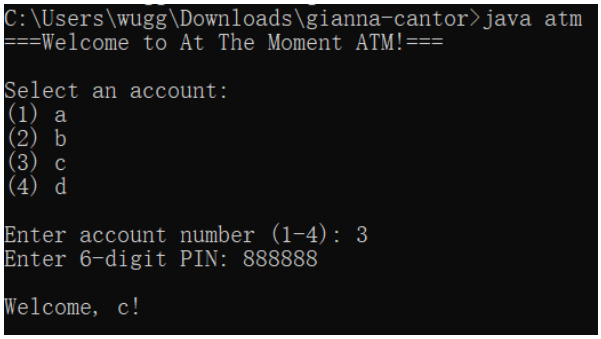
4. Pay Bills (Meralco)

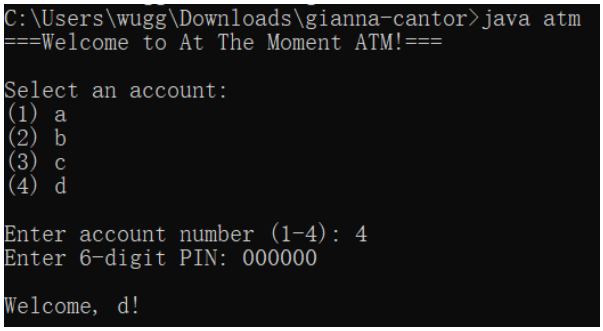
```
Please select a transaction:
--------------------------
(1) Check Balance
(2) Withdraw
(3) Deposit
(4) Pay Bills
(5) Exit

4

Pay my bills
------------
Select utility:
(1) Meralco
(2) Maynilad
(3) Globe

1

Ang liwanag ng bukas - Welcome to Meralco!
------------------------------------------
Amount to pay: P1200
Enter amount: P1200

Transaction success!

Your balance at the moment is
=====P2800.0=====

Please select a transaction:
--------------------------
(1) Check Balance
(2) Withdraw
(3) Deposit
(4) Pay Bills
(5) Exit
```

List of accounts









Entire code of the program

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```
import java.util.Scanner;

public class atm {
	// array of account names, pins, and balances
	static String[] accList = {"a", "b", "c", "d"};
	static int[] pinList = {123456, 987654, 888888, 000000};
	static double[] balList = {5000.00, 3000.00, 10000.00, 2000.00};

	static Scanner s = new Scanner(System.in);
	static int accIndex = -1; // no user logged in yet

	public static void main(String[] args) {
	System.out.println("===Welcome to At The Moment ATM!===\n");

	// Show available accounts
	System.out.println("Select an account:");
	for (int i = 0; i < accList.length; i++) {
		System.out.println("(" + (i + 1) + ") " + accList[i]);
	}

	// account selection (1,2,3,4)
	while (accIndex == -1) {
		System.out.print("\nEnter account number (1-4): ");
		int choice = Integer.parseInt(s.nextLine()) - 1;

		if (choice >= 0 && choice < accList.length) {
			System.out.print("Enter 6-digit PIN: ");
			int accPin = Integer.parseInt(s.nextLine());

			// validate pin
			if (pinList[choice] == accPin) {
				accIndex = choice;
				System.out.println("\nWelcome, " + accList[accIndex] + "!\n");
				atmMenu(); // proceed to transactions
			} else {
```

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```
                    if (pinList[choice] == accPin) {
                        accIndex = choice;
                        System.out.println("\nWelcome, " + accList[accIndex] + "!\n");
                        atmMenu(); // proceed to transactions
                    } else {
                        System.out.println("Incorrect PIN. Try again.\n");
                    }
                } else {
                    System.out.println("Invalid selection. Choose from 1-4.\n");
                }
            }
}

    public static void atmMenu(){
        while(true){
            System.out.println("Please select a transaction:");
            System.out.println("----------------------------");
            System.out.println("(1) Check Balance");
            System.out.println("(2) Withdraw");
            System.out.println("(3) Deposit");
            System.out.println("(4) Pay Bills");
            System.out.println("(5) Exit\n");
            int menuChoice = Integer.parseInt(s.nextLine());

        // select transaction (1,2,3,4,5)
        switch(menuChoice){
            case 1:
                checkBalance();
                break;
            case 2:
                withdraw();
                break;
            case 3:
                deposit();
                break;
```

atm - Notepad

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```
            case 4:
                payBills();
                break;
            case 5:
                System.out.println("\nThank you for using At The Moment ATM! Goodbye!");
                return;
            default:
                System.out.println("Invalid input! Please select from 1-5.");
        }
        }
    }

    public static void checkBalance(){
        System.out.println("\nYour account balance at the moment is");
        System.out.println("=====P"+balList[accIndex]+"=====\n");
    }

    public static void withdraw(){
        System.out.println("\nWithdraw funds from account");
        System.out.println("---------------------------");

    while(true){ // loop if conditions are false until true
        System.out.print("Enter amount: P");
        double amtWithdraw = Double.parseDouble(s.nextLine()); // input amount to withdraw
        if(amtWithdraw>0&&amtWithdraw<=balList[accIndex]){ // amount to withdraw > or = to current account balance
            balList[accIndex]-=amtWithdraw; // amount to withdraw deducted from current account balance, updates current balance
            System.out.println("\nTransaction success!\n");
            System.out.println("Your balance at the moment is");
            System.out.println("=====P"+balList[accIndex]+"=====\n");
            break;
        }else{
            System.out.println("\nInsufficient funds! Please enter a valid amount.\n");
        }
        }
    }
```

atm - Notepad

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```
	public static void deposit(){
		System.out.println("\nDeposit funds to account");
		System.out.println("------------------------");
		System.out.print("Enter amount: P");
		double amtDeposit = Double.parseDouble(s.nextLine()); // input amount to deposit

	while(true){
		if(amtDeposit>0){
			balList[accIndex]+=amtDeposit; // amount to deposit added to current account balance, updates current balance
			System.out.println("\nTransaction success!\n");
			System.out.println("Your balance at the moment is");
			System.out.println("=====P"+balList[accIndex]+"=====\n");
			break;
		}else{
			System.out.println("Invalid amount! Please enter a valid amount.");
			deposit();
		}
	}
	}

	public static void payBills(){
		System.out.println("\nPay my bills");
		System.out.println("------------");
		System.out.println("Select utility:");
		System.out.println("(1) Meralco");
		System.out.println("(2) Maynilad");
		System.out.println("(3) Globe\n");
		int billChoice = Integer.parseInt(s.nextLine());

		// choose which bills to pay
		switch(billChoice){
			case 1:
				System.out.println("\nAng liwanag ng bukas - Welcome to Meralco!");
				System.out.println("-------------------------------------------------");
```

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```
				System.out.println("Amount to pay: P"+"1200");
				System.out.print("Enter amount: P");
				double amtMeralco = Double.parseDouble(s.nextLine());

				balList[accIndex]-=amtMeralco;

				System.out.println("\nTransaction success!\n");
				System.out.println("Your balance at the moment is");
				System.out.println("=====P"+balList[accIndex]+"=====\n");
				break;
			case 2:
				System.out.println("\nDumadaloy ang ginhawa - Welcome to Maynilad!");
				System.out.println("-------------------------------------------------");
				System.out.println("Amount to pay: P"+"500");
				System.out.print("Enter amount: P");
				double amtMaynilad = Double.parseDouble(s.nextLine());

				balList[accIndex]-=amtMaynilad;

				System.out.println("\nTransaction success!\n");
				System.out.println("Your balance at the moment is");
				System.out.println("=====P"+balList[accIndex]+"=====\n");
				break;
			case 3:
				System.out.println("\nAbot mo ang mundo - Welcome to Globe!");
				System.out.println("-------------------------------------------");
				System.out.println("Amount to pay: P"+"2100");
				System.out.print("Enter amount: P");
				double amtGlobe = Double.parseDouble(s.nextLine());

				balList[accIndex]-=amtGlobe;

				System.out.println("\nTransaction success!\n");
				System.out.println("Your balance at the moment is");
				System.out.println("=====P"+balList[accIndex]+"=====\n");

			default:
				System.out.println("Invalid input! Please select from 1-3.");
		}
	}
}
```