INTERNSHIP REPORT

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**College Name: Nehru Institute of Engineering and Technology**

**Submitted to: CODSOFT**

# Task 3: ATM Interface (Java)

**PROGRAM** :

**Import java.util.Scanner;**

**Public class ATMInterface {**

**Public static void main(String[] args) {**

**Scanner scanner = new Scanner(System.in);**

**Int pin = 1234; // preset ATM pin**

**Int attempts = 0;**

**Double balance = 5000.0; // initial balance**

**Boolean authenticated = false;**

**System.out.println(“Welcome to the ATM Interface!”);**

**// PIN authentication (max 3 attempts)**

**While (attempts < 3 && !authenticated) {**

**System.out.print(“Enter your PIN: “);**

**Int enteredPin = scanner.nextInt();**

**If (enteredPin == pin) {**

**Authenticated = true;**

**System.out.println(“PIN verified successfully!\n”);**

**} else {**

**Attempts++;**

**System.out.println(“Incorrect PIN. Try again.”);**

**}**

**}**

**If (!authenticated) {**

**System.out.println(“Too many incorrect attempts. Access denied!”);**

**Scanner.close();**

**Return;**

**}**

**// Main ATM menu**

**Boolean exit = false;**

**While (!exit) {**

**System.out.println(“ATM Menu:”);**

**System.out.println(“1. Check Balance”);**

**System.out.println(“2. Deposit Money”);**

**System.out.println(“3. Withdraw Money”);**

**System.out.println(“4. Exit”);**

**System.out.print(“Choose an option (1-4): “);**

**Int choice = scanner.nextInt();**

**Switch (choice) {**

**Case 1:**

**System.out.printf(“Your current balance is: %.2f\n”, balance);**

**Break;**

**Case 2:**

**System.out.print(“Enter amount to deposit: “);**

**Double deposit = scanner.nextDouble();**

**If (deposit > 0) {**

**Balance += deposit;**

**System.out.printf(“Deposit successful. New balance: %.2f\n”, balance);**

**} else {**

**System.out.println(“Invalid amount!”);**

**}**

**Break;**

**Case 3:**

**System.out.print(“Enter amount to withdraw: “);**

**Double withdraw = scanner.nextDouble();**

**If (withdraw > 0 && withdraw <= balance) {**

**Balance -= withdraw;**

**System.out.printf(“Withdrawal successful. Remaining balance: %.2f\n”, balance);**

**} else {**

**System.out.println(“Invalid amount or insufficient balance!”);**

**}**

**Break;**

**Case 4:**

**System.out.println(“Thank you for using our ATM. Goodbye!”);**

**Exit = true;**

**Break;**

**Default:**

**System.out.println(“Invalid choice. Please select 1-4.”);**

**}**

**System.out.println(); // Add space for readability**

**}**

**Scanner.close();**

**}**

**}**

**OUPUT** :

Welcome to the ATM Interface!

Enter your PIN: 1234

PIN verified successfully!

ATM Menu:

1. Check Balance

2. Deposit Money

3. Withdraw Money

4. Exit

Choose an option (1-4): 1

Your current balance is: 5000.00

ATM Menu:

1. Check Balance

2. Deposit Money

3. Withdraw Money

4. Exit

Choose an option (1-4): 2

Enter amount to deposit: 1500

Deposit successful. New balance: 6500.00

ATM Menu:

1. Check Balance

2. Deposit Money

3. Withdraw Money

4. Exit

Choose an option (1-4): 3

Enter amount to withdraw: 2000

Withdrawal successful. Remaining balance: 4500.00

ATM Menu:

1. Check Balance

2. Deposit Money

3. Withdraw Money

4. Exit

Choose an option (1-4): 4

Thank you for using our ATM. Goodbye!