ATM INTERFACE TASK CODE

user-----

```
package com.jdbc;

public class User
{
   public static void main(String[] args)
   {
      BankAccount userAccount = new BankAccount(2000);
      ATM atm = new ATM(userAccount);
      atm.start();
   }
}
```

bank account----------

```
package com.jdbc;

import java.util.Scanner;

class BankAccount {
   private double balance;

   public BankAccount(double initialBalance) {
      balance = initialBalance;
   }

   public double getBalance() {
      return balance;
   }

   public void deposit(double amount) {
      if(amount > 0) {
         balance += amount;
         System.out.println("Money Deposited: " + amount);
      } else {
         System.out.println("Invalid amount for deposit!");
      }
   }

   public void withdraw(double amount) {
      if(amount > 0 && amount <= balance) {
         balance -= amount;
         System.out.println("Money Withdrawn: " + amount);
      } else {
         System.out.println("Insufficient funds or invalid amount for withdrawal!");
      }
   }
}

class ATM {
   private BankAccount account;
   private Scanner scanner;
```

```
    public ATM(BankAccount account) {
        this.account = account;
        scanner = new Scanner(System.in);
    }

    public void showMenu() {
        System.out.println("******** WELCOME TO ATM ********");
        System.out.println("ATM Menu:");
        System.out.println("1. Check Balance");
        System.out.println("2. Deposit Cash");
        System.out.println("3. Withdraw Cash");
        System.out.println("4. Exit");
    }

    public void start() {
        int choice;
        do {
            showMenu();
            System.out.print("Enter your choice: ");
            choice = scanner.nextInt();
            switch (choice) {
                case 1:
                    checkBalance();
                    break;
                case 2:
                    deposit();
                    break;
                case 3:
                    withdraw();
                    break;
                case 4:
                    System.out.println("Exiting ATM. Thank You!");
                    break;
                default:
                    System.out.println("Invalid choice. Please select a valid option!");
            }
        } while (choice != 4);
    }

    private void checkBalance() {
        System.out.println("Current Balance: " + account.getBalance());
    }

    private void deposit() {
        System.out.print("Enter deposit amount: ");
        double amount = scanner.nextDouble();
        account.deposit(amount);
    }

    private void withdraw() {
        System.out.print("Enter withdrawal amount: ");
        double amount = scanner.nextDouble();
        account.withdraw(amount);
    }
}
```