Task-3 ATM Interface

```
import java.util.Scanner;

class BankAccount {
    private double balance;
    public BankAccount(double initialBalance) {
        this.balance = initialBalance;
    }
    public double getBalance() {
        return balance;
    }
    public void deposit(double amount) {
        if (amount > 0) {
            balance += amount;
            System.out.println("Successfully deposited: $" + amount);
        } else {
            System.out.println("Invalid deposit amount. Please enter a positive value.");
        }
    }
    public void withdraw(double amount) {
        if (amount > 0 && amount <= balance) {
            balance -= amount;
            System.out.println("Successfully withdrew: $" + amount);
        } else if (amount > balance) {
            System.out.println("Insufficient funds. Your balance is: $" + balance);
        } else {
            System.out.println("Invalid withdrawal amount. Please enter a positive value.");
        }
```

Task-3 ATM Interface

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    }

    public void checkBalance() {
        System.out.println("Your current balance is: $" + balance);
    }
}
class ATM {
    private BankAccount account;

    public ATM(BankAccount account) {
        this.account = account;
    }

    public void start() {
        Scanner scanner = new Scanner(System.in);
        while (true) {
            System.out.println("\nATM Interface");
            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: ");

            int choice = scanner.nextInt();
            switch (choice) {
                case 1:
                    account.checkBalance();
                    break;
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Task-3 ATM Interface

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                case 2:
                System.out.print("Enter deposit amount: ");
                double depositAmount = scanner.nextDouble();
                account.deposit(depositAmount);
                break;
            case 3:
                System.out.print("Enter withdrawal amount: ");
                double withdrawAmount = scanner.nextDouble();
                account.withdraw(withdrawAmount);
                break;
            case 4:
                System.out.println("Thank you for using the ATM. Goodbye!");
                scanner.close();
                return;
            default:
                System.out.println("Invalid choice. Please try again.");
        }
    }
  }
}


public class ATMInterface {
  public static void main(String[] args) {
    BankAccount userAccount = new BankAccount(1000);
    ATM atm = new ATM(userAccount);
    atm.start();
```

```
  }
}
```