```java
package mypack;
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("Deposit
successful. New balance:" +balance);
        }
        else {
            System.out.println("Invalid amount
for deposit.");
        }
    }
    public void withdraw(double amount){
        if(amount > 0 && amount <= balance) {
            balance -= amount;
            System.out.println("Withdrawal
successful. New balance:"+balance);
        }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;
        this.scanner = new Scanner(System.in);
    }
    public void showMenu() {

        System.out.println("1. Check Balance");
        System.out.println("2. Deposit");
        System.out.println("3. Withdraw");
        System.out.println("4. Exit");
    }
    public void run() {
        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("Thank you
for using the ATM!");
                break;
              default:
                 System.out.println("Invalid
choice. Please select a valid option.");
                }
            }while(choice != 4);
    }
```

```
    private void checkBalance() {
        System.out.println("Your current
balance is:" +account.getBalance());
    }

    private void deposit() {
        System.out.println("Enter the amount to
deposit:");
        double amount = scanner.nextDouble();
        account.deposit(amount);
    }
    private void withdraw() {
        System.out.print("Enter the amount to
withdraw:");
        double amount = scanner.nextDouble();
        account.withdraw(amount);
    }
}
    public class ATM_Interface{
        public static void main(String[] args)
{
            System.out.println("Welcome to the
ATM!");
            Scanner sc=new Scanner(System.in);
            System.out.print("Enter your four
Digit PIN: ");
            int enteredPin = sc.nextInt();

            BankAccount userAccount = new
BankAccount(1000.0);
            ATM atm = new ATM(userAccount);
            atm.run();
        }
    }
```

```
<terminated> ATM_Interface [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (24-Feb-2024, 1:44:41 pm – 1:45:23 pm) [pid: 1146
Welcome to the ATM!
Enter your four Digit PIN: 2345
1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Enter your choice:1
Your current balance is:1000.0
1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Enter your choice:2
Enter the amount to deposit:
2500
Deposit successful. New balance:3500.0
1. Check Balance
2. Deposit
3. Withdraw
4. Exit
Enter your choice:3
Enter the amount to withdraw:1200
Withdrawal successful. New balance:2300.0
1. Check Balance
2. Deposit
3. Withdraw
4. Exit
```