```java
package codsoft;
import java.util.Scanner;

public class ATM {


        private double balance;
        private Scanner scanner;

        public ATM(double initialBalance) {
            this.balance = initialBalance;
            this.scanner = new Scanner(System.in);
        }

        public void displayMenu() {
            System.out.println("Welcome to the ATM!");
            System.out.println("1. Check Balance");
            System.out.println("2. Deposit Money");
            System.out.println("3. Withdraw Money");
            System.out.println("4. Exit");
        }

        public void start() {
            boolean exit = false;

            while (!exit) {
                displayMenu();
                System.out.print("Enter your choice: ");
                int choice = scanner.nextInt();

                switch (choice) {
                    case 1:
                        checkBalance();
                        break;
                    case 2:
                        deposit();
                        break;
                    case 3:
                        withdraw();
                        break;
                    case 4:
                        exit = true;
                        System.out.println("Thank you for using the ATM!");
                        break;
                    default:
                        System.out.println("Invalid choice. Please try again.");
                }
            }

            scanner.close();
        }

        private void checkBalance() {
            System.out.println("Your current balance: $" + balance);
        }

        private void deposit() {
```

```
58              System.out.print("Enter amount to deposit: $");
59              double amount = scanner.nextDouble();
60              if (amount > 0) {
61                  balance += amount;
62                  System.out.println("Deposit successful. New balance: $" + balance);
63              } else {
64                  System.out.println("Invalid amount. Deposit failed.");
65              }
66          }
67
68          private void withdraw() {
69              System.out.print("Enter amount to withdraw: $");
70              double amount = scanner.nextDouble();
71              if (amount > 0 && amount <= balance) {
72                  balance -= amount;
73                  System.out.println("Withdrawal successful. New balance: $" + balance);
74              } else {
75                  System.out.println("Invalid amount or insufficient funds. Withdrawal failed.");
76              }
77          }
78      public static void main(String[] args) {
79          // TODO Auto-generated method stub
80
81                  // Create an ATM object with an initial balance
82                  ATM atm = new ATM(1000.0); // Starting balance $1000.0
83
84                  // Start the ATM application
85                  atm.start();
86
87
88      }
89
90  }
91
```