import java.util.Scanner;

public class ATMInterface {

private static double balance = 1000.0; // Initial balance

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int choice;

do {

displayMenu();

System.out.print("Enter your choice: ");

choice = scanner.nextInt();

switch (choice) {

case 1:

checkBalance();

break;

case 2:

withdrawMoney(scanner);

break;

case 3:

depositMoney(scanner);

break;

case 4:

System.out.println("Thank you for using the ATM. Goodbye!");

break;

default:

System.out.println("Invalid choice. Please try again.");

}

} while (choice != 4);

scanner.close();

}

private static void displayMenu() {

System.out.println("\nATM Menu:");

System.out.println("1. Check Balance");

System.out.println("2. Withdraw Money");

System.out.println("3. Deposit Money");

System.out.println("4. Exit");

}

private static void checkBalance() {

System.out.printf("Your current balance is: $%.2f%n", balance);

}

private static void withdrawMoney(Scanner scanner) {

System.out.print("Enter the amount to withdraw: ");

double amount = scanner.nextDouble();

if (amount > balance) {

System.out.println("Insufficient funds. Your balance is $" + balance);

} else if (amount <= 0) {

System.out.println("Invalid amount. Please enter a positive value.");

} else {

balance -= amount;

System.out.printf("You have withdrawn $%.2f. Your new balance is $%.2f%n", amount, balance);

}

}

private static void depositMoney(Scanner scanner) {

System.out.print("Enter the amount to deposit: ");

double amount = scanner.nextDouble();

if (amount <= 0) {

System.out.println("Invalid amount. Please enter a positive value.");

} else {

balance += amount;

System.out.printf("You have deposited $%.2f. Your new balance is $%.2f%n", amount, balance);

}

}

}