import java.util.Scanner;

public class ATMSimulator {

private static final int PIN = 1234;

private static double balance = 1000.00;

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int enteredPin;

boolean authenticated = false;

while (!authenticated) {

System.out.print("Enter PIN: ");

enteredPin = scanner.nextInt();

if (enteredPin == PIN) {

authenticated = true;

System.out.println("PIN accepted. You are now logged in.");

} else {

System.out.println("Incorrect PIN. Please try again.");

}

}

boolean running = true;

while (running) {

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

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("Select an option: ");

int option = scanner.nextInt();

switch (option) {

case 1:

checkBalance();

break;

case 2:

depositMoney(scanner);

break;

case 3:

withdrawMoney(scanner);

break;

case 4:

System.out.println("Exiting. Thank you for using our ATM.");

running = false;

break;

default:

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

break;

}

}

scanner.close();

}

private static void checkBalance() {

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

}

private static void depositMoney(Scanner scanner) {

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

double amount = scanner.nextDouble();

if (amount > 0) {

balance += amount;

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

} else {

System.out.println("Deposit amount must be greater than zero.");

}

}

private static void withdrawMoney(Scanner scanner) {

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

double amount = scanner.nextDouble();

if (amount > 0) {

if (amount <= balance) {

balance -= amount;

System.out.printf("Successfully withdrew $%.2f. Your new balance is $%.2f%n", amount, balance);

} else {

System.out.println("Insufficient funds. Please try a different amount.");

}

} else {

System.out.println("Withdrawal amount must be greater than zero.");

}

}

}