import java.util.Scanner;

class BankAccount {

private double balance;

public BankAccount(double initialBalance) {

balance = initialBalance;

}

public double getBalance() {

return balance;

}

public void deposit(double amount) {

balance += amount;

}

public boolean withdraw(double amount) {

if (amount <= balance) {

balance -= amount;

return true;

}

return false;

}

}

class ATM {

private BankAccount account;

public ATM(BankAccount bankAccount) {

account = bankAccount;

}

public void displayMenu() {

System.out.println("ATM Menu:");

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

System.out.println("2. Deposit");

System.out.println("3. Withdraw");

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

}

public void run() {

Scanner scanner = new Scanner(System.in);

while (true) {

displayMenu();

System.out.print("Select an option: ");

int choice = scanner.nextInt();

switch (choice) {

case 1:

System.out.println("Your balance: Rs. " + account.getBalance());

break;

case 2:

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

double depositAmount = scanner.nextDouble();

account.deposit(depositAmount);

System.out.println("Deposit successful. Your balance: Rs. " + account.getBalance());

break;

case 3:

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

double withdrawAmount = scanner.nextDouble();

if (account.withdraw(withdrawAmount)) {

System.out.println("Withdrawal successful. Your balance: Rs. " + account.getBalance());

} else {

System.out.println("Insufficient balance.");

}

break;

case 4:

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

scanner.close();

return;

default:

System.out.println("Invalid option. Please select a valid option.");

}

}

}

}

public class Main {

public static void main(String[] args) {

BankAccount userAccount = new BankAccount(1000); // Initial balance

ATM atm = new ATM(userAccount);

atm.run();

}

}