import java.util.ArrayList;

import java.util.Scanner;

public class ATM {

    private double balance = 0.0;

    private ArrayList<String> transactionHistory = new ArrayList<>();

    public void checkBalance() {

        System.out.println("Current Balance: RS" + balance);

    }

    public void deposit(double amount) {

        if (amount > 0) {

            balance += amount;

            transactionHistory.add("Deposited: RS" + amount);

            System.out.println("RS" + amount + " deposited successfully.");

        } else {

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

        }

    }

    public void withdraw(double amount) {

        if (amount > 0 && amount <= balance) {

            balance -= amount;

            transactionHistory.add("Withdrew: RS" + amount);

            System.out.println("RS" + amount + " withdrawn successfully.");

        } else if (amount > balance) {

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

        } else {

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

        }

    }

    public void showTransactionHistory() {

        if (transactionHistory.isEmpty()) {

            System.out.println("No transactions available.");

        } else {

            System.out.println("Transaction History:");

            for (String transaction : transactionHistory) {

                System.out.println(transaction);

            }

        }

    }

    public static void main(String[] args) {

        ATM atm = new ATM();

        Scanner scanner = new Scanner(System.in);

        boolean running = true;

        while (running) {

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

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

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

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

            System.out.println("4. Transaction History");

            System.out.println("5. Exit");

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

            int choice = scanner.nextInt();

            switch (choice) {

                case 1:

                    atm.checkBalance();

                    break;

                case 2:

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

                    double depositAmount = scanner.nextDouble();

                    atm.deposit(depositAmount);

                    break;

                case 3:

                    System.out.print("Enter withdrawal amount: ");

                    double withdrawAmount = scanner.nextDouble();

                    atm.withdraw(withdrawAmount);

                    break;

                case 4:

                    atm.showTransactionHistory();

                    break;

                case 5:

                    running = false;

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

                    break;

                default:

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

            }

        }

        scanner.close();

    }

}