**2.Simple contact management system**

import java.util.ArrayList;﻿import java.util.Scanner;﻿class Contact {﻿    String name;﻿    String phone;﻿    String email;﻿    Contact(String name, String phone, String email) {﻿        this.name = name;﻿        this.phone = phone;﻿        this.email = email;﻿    }﻿    @Override﻿    public String toString() {﻿        return "Name: " + name + ", Phone: " + phone + ", Email: " + email;﻿    }﻿}﻿ public class Main {﻿    public static void main(String[] args) {﻿        Scanner scanner = new Scanner(System.in);﻿        ArrayList<Contact> contacts = new ArrayList<>();﻿        while (true) {﻿            System.out.println("\n--- Contact Management System ---");﻿            System.out.println("1. Add Contact");﻿            System.out.println("2. View Contacts");﻿            System.out.println("3. Update Contact");﻿            System.out.println("4. Delete Contact");﻿            System.out.println("5. Exit");﻿            System.out.print("Choose an option: ");﻿            int choice = scanner.nextInt();﻿            scanner.nextLine(); // Consume newline﻿            switch (choice) {﻿                case 1 -> addContact(scanner, contacts);﻿                case 2 -> viewContacts(contacts);﻿                case 3 -> updateContact(scanner, contacts);﻿                case 4 -> deleteContact(scanner, contacts);﻿                case 5 -> {﻿                    System.out.println("Exiting. Goodbye!");﻿                    scanner.close();﻿                    return;﻿                }﻿                default -> System.out.println("Invalid choice! Please try again.");﻿            }﻿        }﻿    }﻿    private static void addContact(Scanner scanner, ArrayList<Contact> contacts) {﻿        System.out.print("Enter name: ");﻿        String name = scanner.nextLine();﻿        System.out.print("Enter phone: ");﻿        String phone = scanner.nextLine();﻿        System.out.print("Enter email: ");﻿        String email = scanner.nextLine();﻿        contacts.add(new Contact(name, phone, email));﻿        System.out.println("Contact added successfully!");﻿    }﻿    private static void viewContacts(ArrayList<Contact> contacts) {﻿        if (contacts.isEmpty()) {﻿            System.out.println("No contacts found.");﻿        } else {﻿            System.out.println("--- Contact List ---");﻿            for (int i = 0; i < contacts.size(); i++) {﻿                System.out.println((i + 1) + ". " + contacts.get(i));﻿            }﻿        }﻿    }﻿    private static void updateContact(Scanner scanner, ArrayList<Contact> contacts) {﻿        if (contacts.isEmpty()) {﻿            System.out.println("No contacts to update.");﻿            return;﻿        }﻿        viewContacts(contacts);﻿        System.out.print("Enter the contact number to update: ");﻿        int index = scanner.nextInt() - 1;﻿        scanner.nextLine(); // Consume newline﻿        if (index >= 0 && index < contacts.size()) {﻿            System.out.print("Enter new name: ");﻿            String name = scanner.nextLine();﻿            System.out.print("Enter new phone: ");﻿            String phone = scanner.nextLine();﻿            System.out.print("Enter new email: ");﻿            String email = scanner.nextLine();﻿            contacts.set(index, new Contact(name, phone, email));﻿            System.out.println("Contact updated successfully!");﻿        } else {﻿            System.out.println("Invalid contact number!");﻿        }﻿    }﻿    private static void deleteContact(Scanner scanner, ArrayList<Contact> contacts) {﻿        if (contacts.isEmpty()) {﻿            System.out.println("No contacts to delete.");﻿            return;﻿        }﻿        viewContacts(contacts);﻿        System.out.print("Enter the contact number to delete: ");﻿        int index = scanner.nextInt() - 1;﻿        if (index >= 0 && index < contacts.size()) {﻿            contacts.remove(index);﻿            System.out.println("Contact deleted successfully!");﻿        } else {﻿            System.out.println("Invalid contact number!");﻿        }﻿    }﻿}