class Contact:

    def \_\_init\_\_(self, name, phone, email, address):

        self.name = name

        self.phone = phone

        self.email = email

        self.address = address

    def update(self, name=None, phone=None, email=None, address=None):

        if name:

            self.name = name

        if phone:

            self.phone = phone

        if email:

            self.email = email

        if address:

            self.address = address

    def \_\_str\_\_(self):

        return f"Name: {self.name}, Phone: {self.phone}, Email: {self.email}, Address: {self.address}"

def add\_contact(contacts):

    name = input("Enter name: ")

    phone = input("Enter phone number: ")

    email = input("Enter email: ")

    address = input("Enter address: ")

    contacts.append(Contact(name, phone, email, address))

    print("Contact added successfully!")

def view\_contacts(contacts):

    if not contacts:

        print("No contacts found.")

        return

    for idx, contact in enumerate(contacts, start=1):

        print(f"{idx}. {contact.name} - {contact.phone}")

def search\_contact(contacts):

    query = input("Enter name or phone number to search: ")

    results = [contact for contact in contacts if query.lower() in contact.name.lower() or query in contact.phone]

    if results:

        for contact in results:

            print(contact)

    else:

        print("No contacts found.")

def update\_contact(contacts):

    name = input("Enter the name of the contact to update: ")

    for contact in contacts:

        if contact.name.lower() == name.lower():

            new\_name = input(f"Enter new name (leave blank to keep {contact.name}): ")

            new\_phone = input(f"Enter new phone (leave blank to keep {contact.phone}): ")

            new\_email = input(f"Enter new email (leave blank to keep {contact.email}): ")

            new\_address = input(f"Enter new address (leave blank to keep {contact.address}): ")

            contact.update(new\_name, new\_phone, new\_email, new\_address)

            print("Contact updated successfully!")

            return

    print("Contact not found.")

def delete\_contact(contacts):

    name = input("Enter the name of the contact to delete: ")

    for contact in contacts:

        if contact.name.lower() == name.lower():

            contacts.remove(contact)

            print("Contact deleted successfully!")

            return

    print("Contact not found.")

def main():

    contacts = []

    while True:

        print("\nContact Management System")

        print("1. Add Contact")

        print("2. View Contact List")

        print("3. Search Contact")

        print("4. Update Contact")

        print("5. Delete Contact")

        print("6. Exit")

        choice = input("Enter your choice: ")

        if choice == '1':

            add\_contact(contacts)

        elif choice == '2':

            view\_contacts(contacts)

        elif choice == '3':

            search\_contact(contacts)

        elif choice == '4':

            update\_contact(contacts)

        elif choice == '5':

            delete\_contact(contacts)

        elif choice == '6':

            print("Exiting the program.")

            break

        else:

            print("Invalid choice, please try again.")

if \_\_name\_\_ == "\_\_main\_\_":

    main()