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class Contact:
    def __init__(self, name, phone, email, address):
        self.name = name
        self.phone = phone
        self.email = email
        self.address = address

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

class ContactManager:
    def __init__(self):
        self.contacts = {}

    def add_contact(self, name, phone, email, address):
        if phone in self.contacts:
            print("Contact with this phone number already exists.")
        else:
            self.contacts[phone] = Contact(name, phone, email, address)
            print("Contact added successfully!")

    def view_contacts(self):
        if self.contacts:
            for phone, contact in self.contacts.items():
                print(contact)
        else:
            print("No contacts available.")

    def search_contact(self, search_term):
        found = False
        for contact in self.contacts.values():
            if search_term in contact.name or search_term in contact.phone:
                print(contact)
                found = True
        if not found:
            print("No contact found.")

    def update_contact(self, phone):
        if phone in self.contacts:
            name = input("Enter new name: ")
            email = input("Enter new email: ")
            address = input("Enter new address: ")
            self.contacts[phone].name = name
            self.contacts[phone].email = email
            self.contacts[phone].address = address
            print("Contact updated successfully!")
        else:
            print("Contact not found.")

    def delete_contact(self, phone):
        if phone in self.contacts:
            del self.contacts[phone]
            print("Contact deleted successfully!")
        else:
            print("Contact not found.")

    def menu(self):
        while True:
            print("\n--- Contact Manager ---")
            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("Choose an option: ")
            if choice == '1':
                name = input("Enter name: ")
                phone = input("Enter phone number: ")
                email = input("Enter email: ")
                address = input("Enter address: ")
                self.add_contact(name, phone, email, address)
            elif choice == '2':
                self.view_contacts()
            elif choice == '3':
                search_term = input("Enter name or phone number to search: ")
                self.search_contact(search_term)
            elif choice == '4':
                phone = input("Enter phone number of the contact to update: ")

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        self.update_contact(phone)
    elif choice == '5':
        phone = input("Enter phone number of the contact to delete: ")
        self.delete_contact(phone)
    elif choice == '6':
        print("Exiting...")
        break
    else:
        print("Invalid choice, please try again.")

if __name__ == "__main__":
    manager = ContactManager()
    manager.menu()
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--- Contact Manager ---
1. Add Contact
2. View Contact List
3. Search Contact
4. Update Contact
5. Delete Contact
6. Exit
Choose an option: 6
Exiting...
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