TASK 5

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 = input("Enter name: ")

phone = input("Enter phone number: ")

email = input("Enter email: ")

address = input("Enter address: ")

self.contacts[phone] = Contact(name, phone, email, address)

print("Contact added successfully.")

def view\_contacts(self):

if not self.contacts:

print("No contacts available.")

return

print("Contact List:")

for contact in self.contacts.values():

print(contact)

def search\_contact(self):

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

for contact in self.contacts.values():

if contact.name == query or contact.phone == query:

print(contact)

return

print("Contact not found.")

def update\_contact(self):

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

if phone in self.contacts:

contact = self.contacts[phone]

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

new\_phone = input(f"Enter new phone number ({contact.phone}): ")

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

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

if new\_name: contact.name = new\_name

if new\_phone: contact.phone = new\_phone

if new\_email: contact.email = new\_email

if new\_address: contact.address = new\_address

print("Contact updated successfully.")

else:

print("Contact not found.")

def delete\_contact(self):

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

if phone in self.contacts:

del self.contacts[phone]

print("Contact deleted successfully.")

else:

print("Contact not found.")

def user\_interface(self):

while True:

print("\nContact 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':

self.add\_contact()

elif choice == '2':

self.view\_contacts()

elif choice == '3':

self.search\_contact()

elif choice == '4':

self.update\_contact()

elif choice == '5':

self.delete\_contact()

elif choice == '6':

print("Exiting the contact manager.")

break

else:

print("Invalid choice. Please try again.")

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

manager = ContactManager()

manager.user\_interface()