Contact Book

class Contact:

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

self.name = name

self.phone = phone

self.email = email

self.address = address

class ContactManagementSystem:

def \_\_init\_\_(self):

self.contacts = []

def add\_contact(self, contact):

self.contacts.append(contact)

def view\_contacts(self):

for contact in self.contacts:

print(f"Name: {contact.name}, Phone: {contact.phone}")

def search\_contact(self, keyword):

found\_contacts = []

for contact in self.contacts:

if keyword.lower() in contact.name.lower() or keyword in contact.phone:

found\_contacts.append(contact)

return found\_contacts

def update\_contact(self, old\_name, new\_name, new\_phone, new\_email, new\_address):

for contact in self.contacts:

if contact.name == old\_name:

contact.name = new\_name

contact.phone = new\_phone

contact.email = new\_email

contact.address = new\_address

break

def delete\_contact(self, name):

self.contacts = [contact for contact in self.contacts if contact.name != name]

def main():

cms = ContactManagementSystem()

while True:

print("\nContact Management System")

print("1. Add Contact")

print("2. View Contacts")

print("3. Search Contact")

print("4. Update Contact")

print("5. Delete Contact")

print("6. Exit")

choice = input("Enter your choice: ")

if choice == "1":

name = input("Name: ")

phone = input("Phone: ")

email = input("Email: ")

address = input("Address: ")

contact = Contact(name, phone, email, address)

cms.add\_contact(contact)

elif choice == "2":

cms.view\_contacts()

elif choice == "3":

keyword = input("Enter search keyword: ")

found\_contacts = cms.search\_contact(keyword)

for contact in found\_contacts:

print(f"Name: {contact.name}, Phone: {contact.phone}")

elif choice == "4":

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

new\_name = input("New Name: ")

new\_phone = input("New Phone: ")

new\_email = input("New Email: ")

new\_address = input("New Address: ")

cms.update\_contact(old\_name, new\_name, new\_phone, new\_email, new\_address)

elif choice == "5":

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

cms.delete\_contact(name)

elif choice == "6":

print("Exiting the Contact Management System.")

break

else:

print("Invalid choice. Please select a valid option.")

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

main()