import json

# File to store contact information

FILENAME = 'contacts.json'

def load\_contacts():

"""Load contacts from a JSON file."""

try:

with open(FILENAME, 'r') as file:

return json.load(file)

except FileNotFoundError:

return []

def save\_contacts(contacts):

"""Save contacts to a JSON file."""

with open(FILENAME, 'w') as file:

json.dump(contacts, file, indent=4)

def add\_contact():

"""Add a new contact."""

name = input("Enter Name: ")

phone = input("Enter Phone Number: ")

email = input("Enter Email: ")

address = input("Enter Address: ")

contact = {

"name": name,

"phone": phone,

"email": email,

"address": address

}

contacts.append(contact)

save\_contacts(contacts)

print("Contact added successfully!")

def view\_contacts():

"""Display all contacts."""

if not contacts:

print("No contacts found.")

return

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

print(f"\nContact {index}:")

print(f"Name: {contact['name']}")

print(f"Phone: {contact['phone']}")

print(f"Email: {contact['email']}")

print(f"Address: {contact['address']}")

def search\_contact():

"""Search for a contact by name or phone number."""

search\_term = input("Enter name or phone number to search: ").lower()

for contact in contacts:

if search\_term in contact['name'].lower() or search\_term in contact['phone']:

print(f"\nName: {contact['name']}")

print(f"Phone: {contact['phone']}")

print(f"Email: {contact['email']}")

print(f"Address: {contact['address']}")

return

print("Contact not found.")

def update\_contact():

"""Update an existing contact."""

search\_term = input("Enter name or phone number of the contact to update: ").lower()

for contact in contacts:

if search\_term in contact['name'].lower() or search\_term in contact['phone']:

print("Contact found! Enter new details.")

contact['name'] = input(f"Enter Name [{contact['name']}]: ") or contact['name']

contact['phone'] = input(f"Enter Phone Number [{contact['phone']}]: ") or contact['phone']

contact['email'] = input(f"Enter Email [{contact['email']}]: ") or contact['email']

contact['address'] = input(f"Enter Address [{contact['address']}]: ") or contact['address']

save\_contacts(contacts)

print("Contact updated successfully!")

return

print("Contact not found.")

def delete\_contact():

"""Delete a contact."""

search\_term = input("Enter name or phone number of the contact to delete: ").lower()

for contact in contacts:

if search\_term in contact['name'].lower() or search\_term in contact['phone']:

contacts.remove(contact)

save\_contacts(contacts)

print("Contact deleted successfully!")

return

print("Contact not found.")

def main():

while True:

print("\n--- Contact Book ---")

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':

add\_contact()

elif choice == '2':

view\_contacts()

elif choice == '3':

search\_contact()

elif choice == '4':

update\_contact()

elif choice == '5':

delete\_contact()

elif choice == '6':

print("Exiting the Contact Book.")

break

else:

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

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

contacts = load\_contacts()

main()