import json

import os

CONTACTS\_FILE = 'contacts.json'

# Load contacts from file

def load\_contacts():

if os.path.exists(CONTACTS\_FILE):

with open(CONTACTS\_FILE, 'r') as f:

return json.load(f)

return {}

# Save contacts to file

def save\_contacts(contacts):

with open(CONTACTS\_FILE, 'w') as f:

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

# Add contact

def add\_contact(contacts):

name = input("Enter name: ").strip()

if name in contacts:

print("Contact already exists.")

return

phone = input("Enter phone: ").strip()

email = input("Enter email: ").strip()

contacts[name] = {'phone': phone, 'email': email}

print(f"Contact '{name}' added.")

# View all contacts

def view\_contacts(contacts):

if not contacts:

print("No contacts found.")

return

for name, info in contacts.items():

print(f"Name: {name}, Phone: {info['phone']}, Email: {info['email']}")

# Search contact

def search\_contact(contacts):

name = input("Enter name to search: ").strip()

if name in contacts:

info = contacts[name]

print(f"Name: {name}, Phone: {info['phone']}, Email: {info['email']}")

else:

print("Contact not found.")

# Update contact

def update\_contact(contacts):

name = input("Enter name to update: ").strip()

if name in contacts:

phone = input("Enter new phone: ").strip()

email = input("Enter new email: ").strip()

contacts[name] = {'phone': phone, 'email': email}

print("Contact updated.")

else:

print("Contact not found.")

# Delete contact

def delete\_contact(contacts):

name = input("Enter name to delete: ").strip()

if name in contacts:

del contacts[name]

print("Contact deleted.")

else:

print("Contact not found.")

# Main menu

def main():

contacts = load\_contacts()

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("Choose an option: ").strip()

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':

save\_contacts(contacts)

print("Contacts saved. Goodbye!")

break

else:

print("Invalid choice. Try again.")

if \_\_name\_\_ == '\_\_main\_\_':

main()