import json

# File to store contacts

CONTACTS\_FILE = 'contacts.json'

def load\_contacts():

"""Load contacts from a file (if exists)"""

try:

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

return json.load(file)

except FileNotFoundError:

return {}

def save\_contacts(contacts):

"""Save contacts to a file"""

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

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

def add\_contact(contacts):

"""Add a new contact"""

name = input("Enter name: ")

phone = input("Enter phone number: ")

email = input("Enter email: ")

address = input("Enter address: ")

contacts[name] = {

'phone': phone,

'email': email,

'address': address

}

save\_contacts(contacts)

print(f"Contact for {name} added successfully!")

def view\_contacts(contacts):

"""Display all contacts"""

if contacts:

for name, details in contacts.items():

print(f"\nName: {name}")

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

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

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

else:

print("No contacts available.")

def search\_contact(contacts):

"""Search for a contact by name"""

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

if name in contacts:

details = contacts[name]

print(f"\nName: {name}")

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

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

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

else:

print(f"Contact for {name} not found.")

def update\_contact(contacts):

"""Update contact details"""

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

if name in contacts:

print(f"Updating details for {name}:")

phone = input(f"Enter new phone number (current: {contacts[name]['phone']}): ")

email = input(f"Enter new email (current: {contacts[name]['email']}): ")

address = input(f"Enter new address (current: {contacts[name]['address']}): ")

contacts[name] = {

'phone': phone or contacts[name]['phone'],

'email': email or contacts[name]['email'],

'address': address or contacts[name]['address']

}

save\_contacts(contacts)

print(f"Contact for {name} updated successfully!")

else:

print(f"Contact for {name} not found.")

def delete\_contact(contacts):

"""Delete a contact"""

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

if name in contacts:

del contacts[name]

save\_contacts(contacts)

print(f"Contact for {name} deleted successfully!")

else:

print(f"Contact for {name} not found.")

def main():

"""Main function to run the Contact Book"""

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("Enter your choice (1-6): ")

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':

print("Exiting Contact Book. Goodbye!")

break

else:

print("Invalid choice! Please choose a valid option.")

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

main()