

```
#simple contact book for college project
```

```
import json
```

```
def load_contact():
```

```
    try:
```

```
        with open('contacts.json','r') as f:
```

```
            return json.load(f)
```

```
    except:
```

```
        return {}
```

```
def save_contacts(data):
```

```
    with open('contacts.json','w') as f:
```

```
        json.dump(data,f,indent=2)
```

```
def add_contact(contacts):
```

```
    print("\n---add contact---")
```

```
    name=input('enter name')
```

```
    phone=int(input('enter phone number'))
```

```
    email=input('email (optional):')
```

```
    contacts[name]={
```

```
        "phone":phone,"email":email
```

```
    }
```

```
save_contacts(contacts)
print('contact saved successfully')

def view_contacts(contacts):
    print("\n---all contacts---")
    if len(contacts)==0:
        print('no contacts found')
        return

    for n in contacts:
        print('name:',n)
        print('phone:',contacts[n]['phone'])
        if contacts[n]['email']:
            print('email:',contacts[n]['email'])
            print('----')

def search_contact(contacts):
    print("\n---search contact---")
    name=input('enter name to search')

    if name in contacts:
        print('contact found')
```

cse project.py - C:\Users\Admin\Documents\cse project.py (3.12.5)

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```
print('name:',name)
print('phone:',contacts[name]['phone'])
print('email:',contacts[name]['email'])
else:
    print('no such contact.')

def delete_contact(contacts):
    print("\n----delete contact----")
    name=input('enter name to delete:')

    if name in contacts:
        del contacts[name]
        save_contacts(contacts)
        print('contact deleted')
    else:
        print('contact not found')

def main():
    contacts=load_contact()
    while True:
        print("\n===CONTACT BOOK===")
        print("1.add contact")
        print("2.view contact")
```

Ln: 20 Col: 0

```
print("4.delete contact")
print("5.exit")

ch=input('choose an option')

if ch=="1":
    add_contact(contacts)
elif ch=="2":
    view_contacts(contacts)
elif ch=="3":
    search_contact(contacts)
elif ch=="4":
    delete_contact(contacts)
elif ch=="5":
    print('thank you for using contact book')
    break
else:
    print('invalid option,try again')

if __name__=="__main__":
    main()
```

Python 3.12.5 (tags/v3.12.5:ff3bc82, Aug 6 2024, 20:45:27) [MSC v.1940 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:\Users\Admin\Documents\cse project.py

===CONTACT BOOK===

1.add contact

2.view contact

3.search contact

4.delete contact

5.exit

choose an option1

---add contact---

enter name lakshya

enter phone number 89756356

email (optional): lakshya12@gmail.com

contact saved successfully

===CONTACT BOOK===

1.add contact

2.view contact

3.search contact



```
3.search contact
4.delete contact
5.exit
choose an option2
```

```
---all contacts---
```

```
name: lakshya
```

```
phone: 89756356
```

```
email: lakshya12@gmail.com
```

```
----
```

```
===CONTACT BOOK===
```

```
1.add contact
```

```
2.view contact
```

```
3.search contact
```

```
4.delete contact
```

```
5.exit
```

```
choose an option3
```

```
---search contact---
```

```
enter name to searchlakshya
```

```
contact found
```

```
name: lakshya
```



```
name: lakshya  
phone: 89756356  
email: lakshya12@gmail.com
```

```
===CONTACT BOOK===
```

```
1.add contact  
2.view contact  
3.search contact  
4.delete contact  
5.exit  
choose an option4
```

```
----delete contact----  
enter name to delete:lakshya  
contact deleted
```

```
===CONTACT BOOK===
```

```
1.add contact  
2.view contact  
3.search contact  
4.delete contact  
5.exit  
choose an option?
```

```
enter name to delete.lakshya  
contact deleted
```

```
===CONTACT BOOK===
```

```
1.add contact  
2.view contact  
3.search contact  
4.delete contact  
5.exit  
choose an option2
```

```
---all contacts---  
no contacts found
```

```
===CONTACT BOOK===
```

```
1.add contact  
2.view contact  
3.search contact  
4.delete contact  
5.exit  
choose an option5  
thank you for using contact book
```

>>>

