

Adding contacts to files:

```
In [18]: 1 #Function to add contact to contacts text file
2 from Packages.validators import phoneNumValidator as pnv,emailValidator as e
3
4 def addcontact(name,phone,email):
5     # store data as name,phone,email in the contacts file
6     filename='DataFiles/contacts.txt'
7     if not checkContactExists(name):
8         if pnv(phone) and ev(email):
9             with open(filename,'a') as f:
10                 line = name + ',' + str(phone) + ',' + email + '\n'
11                 f.write(line)
12                 print(name,'added to contacts')
13             else:
14                 print('Invalid Phone number or Email')
15                 return
16         else:
17             print(name,'already exists')
18         return
19 addcontact("name3",8234567890,"name3_123@gmail.com")
20
21
22 import re
23 #Function to check if contact already exists
24
25 def checkContactExists(name):
26     filename= 'DataFiles/contacts.txt'
27     with open(filename,'r') as f:
28         filedata = f.read()
29         pattern = name+', '
30         return re.search(pattern, filedata)
31
32
33 #addcontact('name2',1234567890,'name1_23@gmail.com')
```

name3 added to contacts

```
In [23]: 1 filename = 'DataFiles/contacts.txt'
2 def csvToList(filename):
3     li = []
4     with open(filename, 'r') as f:
5         for line in f:
6             li.append(line.split(','))
7     return li
8
9
10 def listToFile(li):
11     s = ''
12     for i in li:
13         s += ','.join(i)
14     return s
15
16
17 li = csvToList(filename)
18 listToFile(li)
19
```

```
Out[23]: 'name1,9876543210, name1_123@gmail.com\nname2,9876543210, name1_123@gmail.com\n
name3,8234567890, name3_123@gmail.com\n'
```

```
In [29]: 1 #Function to search contacts
2
3
4 import re
5 #Function to check if contact already exists
6
7 def checkContactExists(name):
8     filename= 'DataFiles/contacts.txt'
9     with open(filename, 'r') as f:
10         filedata = f.read()
11         pattern = name+', '
12     return re.search(pattern, filedata)
13
14 checkContactExists("name1")
```

```
Out[29]: <re.Match object; span=(0, 6), match='name1,'>
```

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In [ ]: 1
```