

# 文件处理：

打开文件 准备文件以供读取： A. 将文件变量与物理文件链接（对文件变量的引用是对物理文件的引用）。 B. 将文件指针定位在文件的开头。

文件指针：'r'与'w'通常指在文件的开头，当以"a"打开时，指针始终在文件顶部打开以追加新行

```
Format:1
<file variable> = open(<file name>, "r")
```

```
file=input()
file=open(file,'r')
```

```
# 按照行读取文件:
for l in file:
    print(l)
```

关闭文件：inputfile.closed()

- 如何向文件当中写入信息：
  - 1, open文件
    - file=open(string,char)
  - 2, 写文件的命令
    - file.write(string)\*\*\*注意：函数的参数必须是一个string类型的字符串
  - 3, 关闭文件的命令
- 读取文件常用的算法：

```
-line = inputFile.readline()

-while (line != ""): # readline() returns ' ' when it reaches end of file
-    print(line)
-    line = inputFile.readline()
```

写文件，参数用'w'

```
file.wirte(temp)
```

# 序列化:

序列化是将对象转换为字节流或其他可存储或传输的格式的过程，而反序列化则是将字节流或其他格式转换回对象的过程。

pickle模块实现序列化:

```
# pickle模块实现序列化:
import pickle
l=[1,2,3,4,5,6,67]
with open('l.pickle','rb') as f:
    pickle.dump(l,f)#保存
    l=pickle.load(f)#使用
```

json模块实现序列化:

```
# json模块实现序列化:
import json
l=[1,2,3,4,5,6,67]
with open('l.json','r',encoding='utf-8') as f:
    l=json.load(f)
```

CSV 文件:

## Saving and Loading Data with CSV Files

Use csv library to read data from comma separated value files.  
Read file line, by line, do something with each line as array

```
5 import csv
6
7 # open the file to read it into the database
8 * with open('USGS_WC_eartag_deployments_2009-2011.csv', newline='') as f:
9     reader = csv.reader(f, delimiter=",")
10     next(reader) # skip the header line
11 * for row in reader:
12     print(row)
13
14     """ we could do something with this data,
15     such as move it into a database, or process it by extracting items
16     as here, being sure to convert them to the format required
17     """
18     bearID = int(row[0])
19     pTT_ID = int(row[1])
20     capture_lat = float(row[6])
21     capture_long = float(row[7])
22     sex = row[9]
23     age_class = row[10]
24     ear_applied = row[11]
25
26     print("finished parsing")
27 f.close() # close the file
```

Use newline flag so that you use correctly interpret line endings on your platform

<https://docs.python.org/3/library/csv.html>