

# Reading and Writing Data

- Reading from a File

```
for line in file:  
    # process line  
    # perform task  
    # etc.
```

- Reading from stdin

```
in_addr = input('Enter...:')
```

- Writing to a File

main.py

```
file = open(...)  
for line in file:  
    # use access info  
    # to connect to  
    # device and get  
    # state, etc.
```

Device  
Access Info

Device  
Status



```
python $cat SEC05-1-read.py  
# Read in the device information  
file = open('dev-01-info','r')  
  
# Read in the device information one line at a time  
name = file.readline()  
ip_address = file.readline()  
os_type = file.readline()  
username = file.readline()  
password = file.readline()  
  
# print out the information  
print 'device name: ',name  
print 'ip address: ',ip_address  
print 'os type: ',os_type  
print 'username: ',username  
print 'password: ',password
```

The “dev-01-info” is a file in the same folder as the SEC05-1-read.py file. This file contains device name, IP, OS, username and password.