



#### **PYTHON**

# FILE

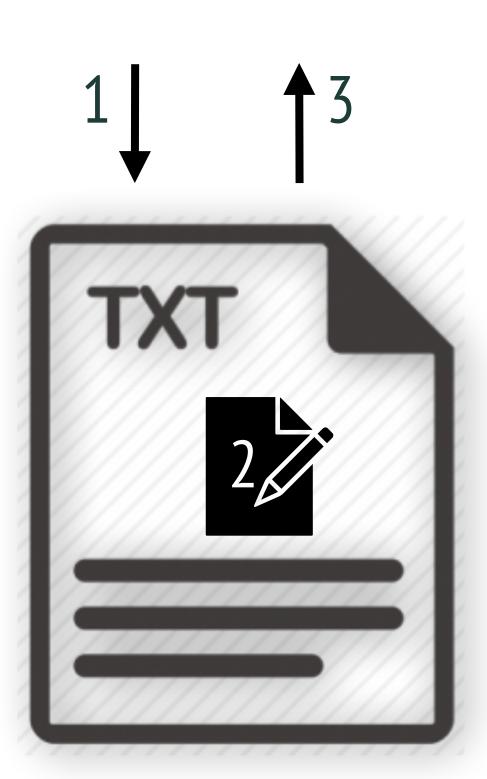
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### OUTLINE



- procedure
- working with file by pandas

### **TYPICAL PROCEDURE**

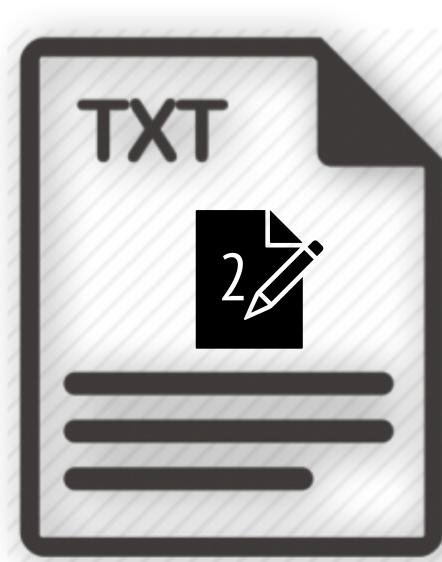


- → 1. Connect to file
- → 2. Read from/ write to file
- → 3. Disconnect to file

#### **READ FROM A FILE**

file already exists

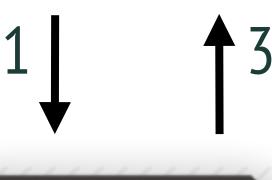


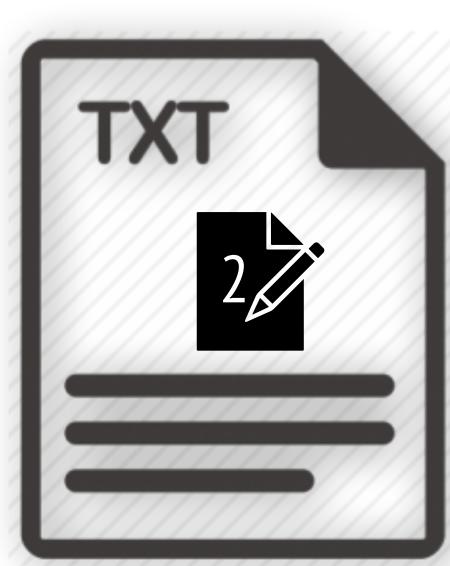


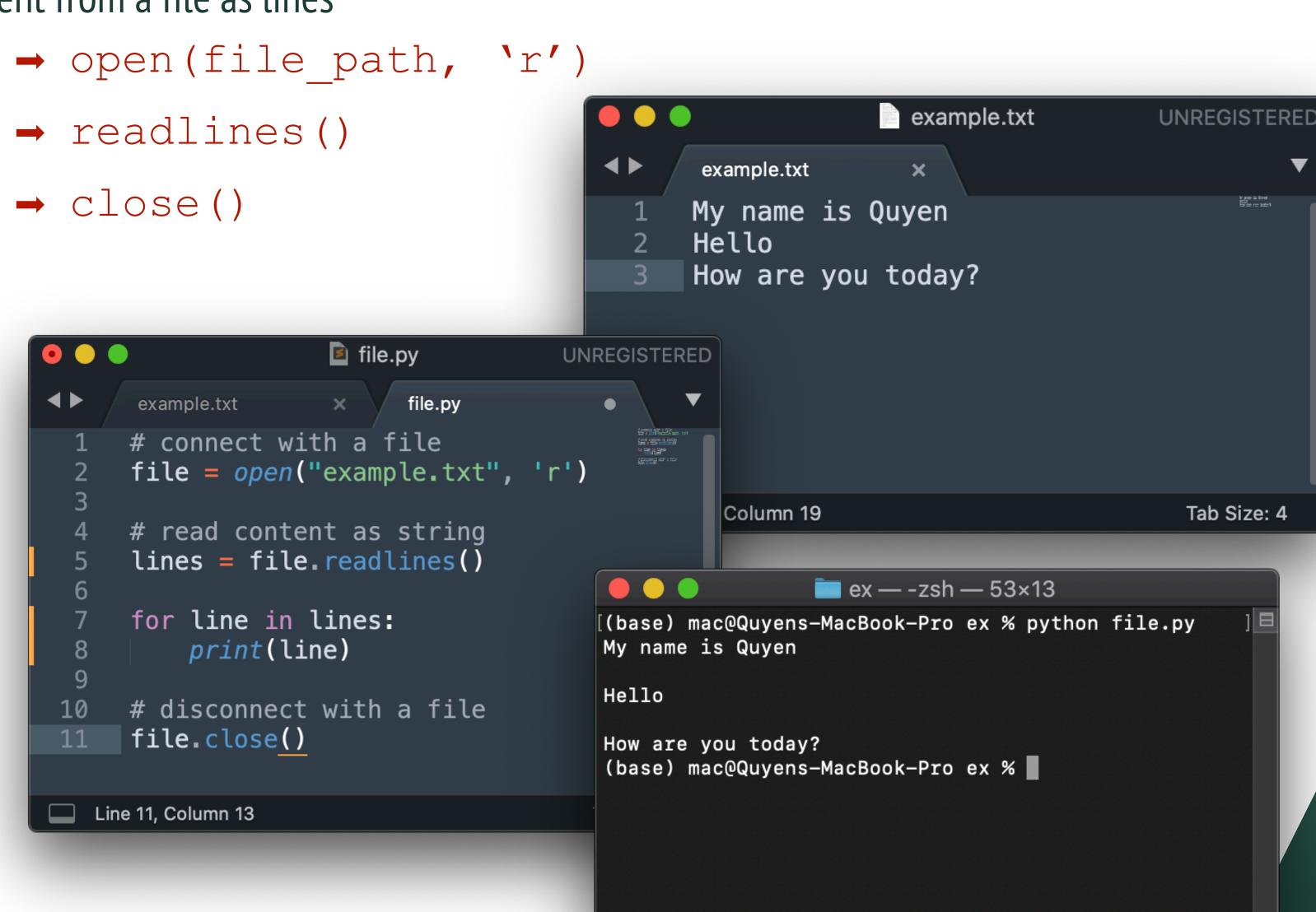
```
→ open(file_path, 'r')
                                                            example.txt
                                                                                UNREGISTERED
→ read()
                                         ◆▶
                                               example.txt
→ close()
                                               My name is Quyen
                                               Hello
                                               How are you today?
                     ile.py
                                      UNREGISTERED
                           file.py
        example.txt
        # connect with a file
        file = open("example.txt", 'r')
                                                 Column 19
                                                                                  Tab Size: 4
       # read content as string
        data = file.read()
                                         ex — -zsh — 53×13
        print(type(data))
                                         [(base) mac@Quyens-MacBook-Pro ex % python file.py
                                         <class 'str'>
        print(data)
                                         My name is Quyen
                                         Hello
        # disconnect with a file
                                         How are you today?
        file.close()
                                         (base) mac@Quyens-MacBook-Pro ex %
  Line 11, Column 13
```

#### **READ FROM A FILE**

• file already exists, read content from a file as lines



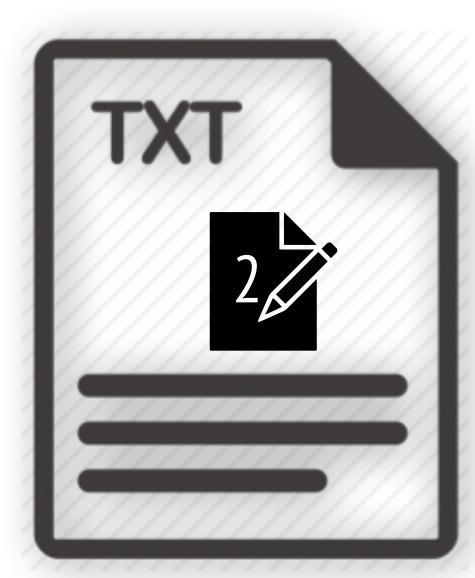




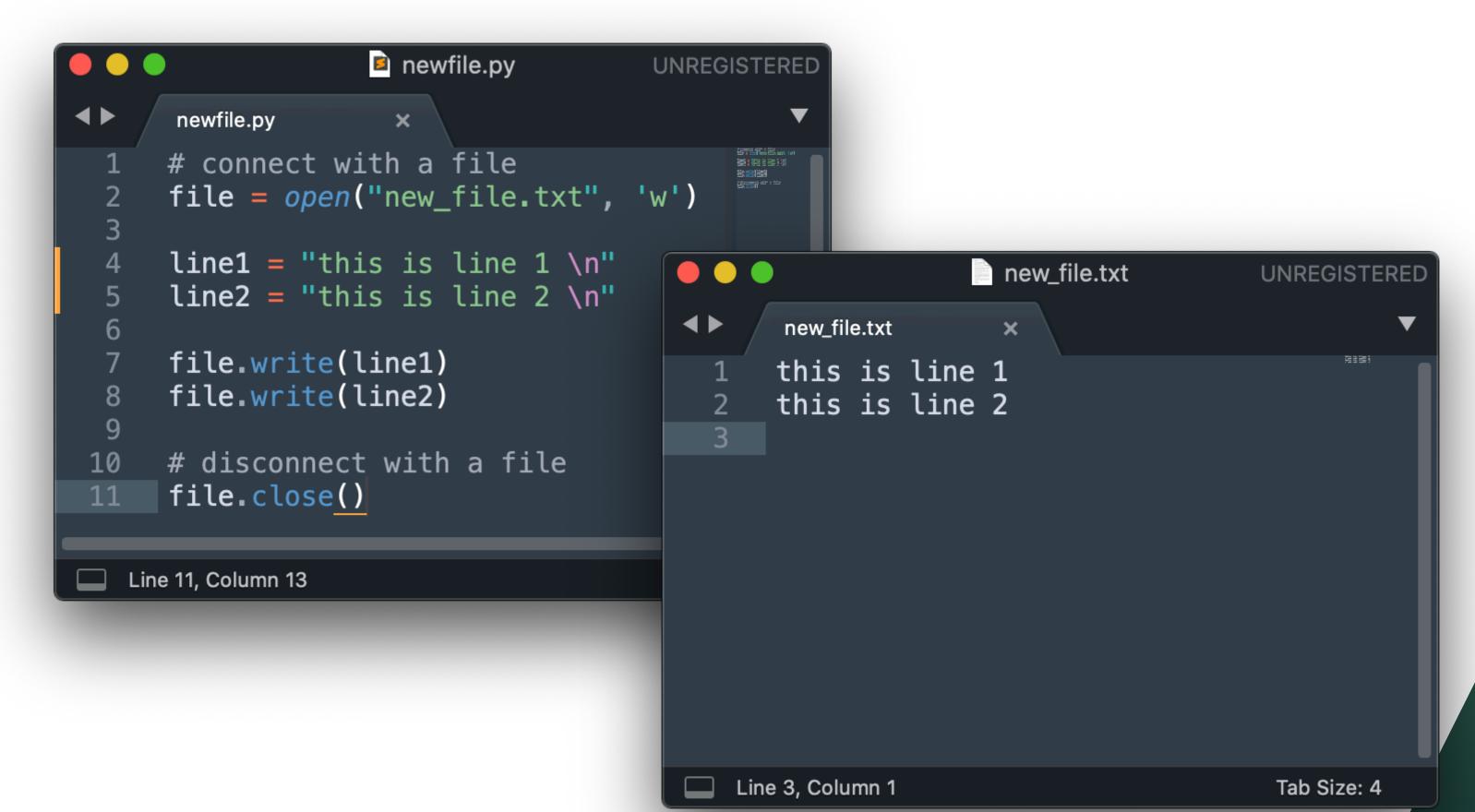
#### WRITE TO A FILE

file does not exist





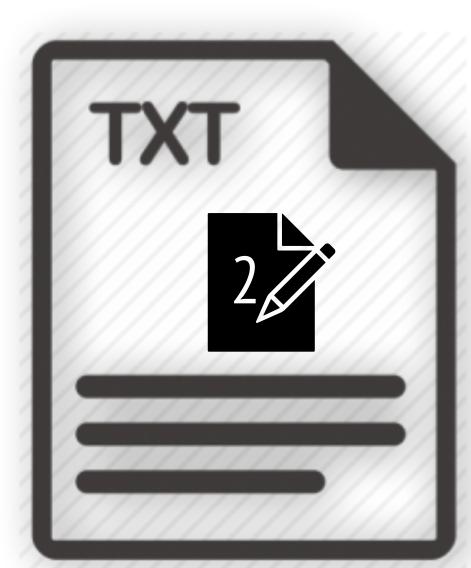
- → open(file\_path, 'w')
- → write()
- → close()



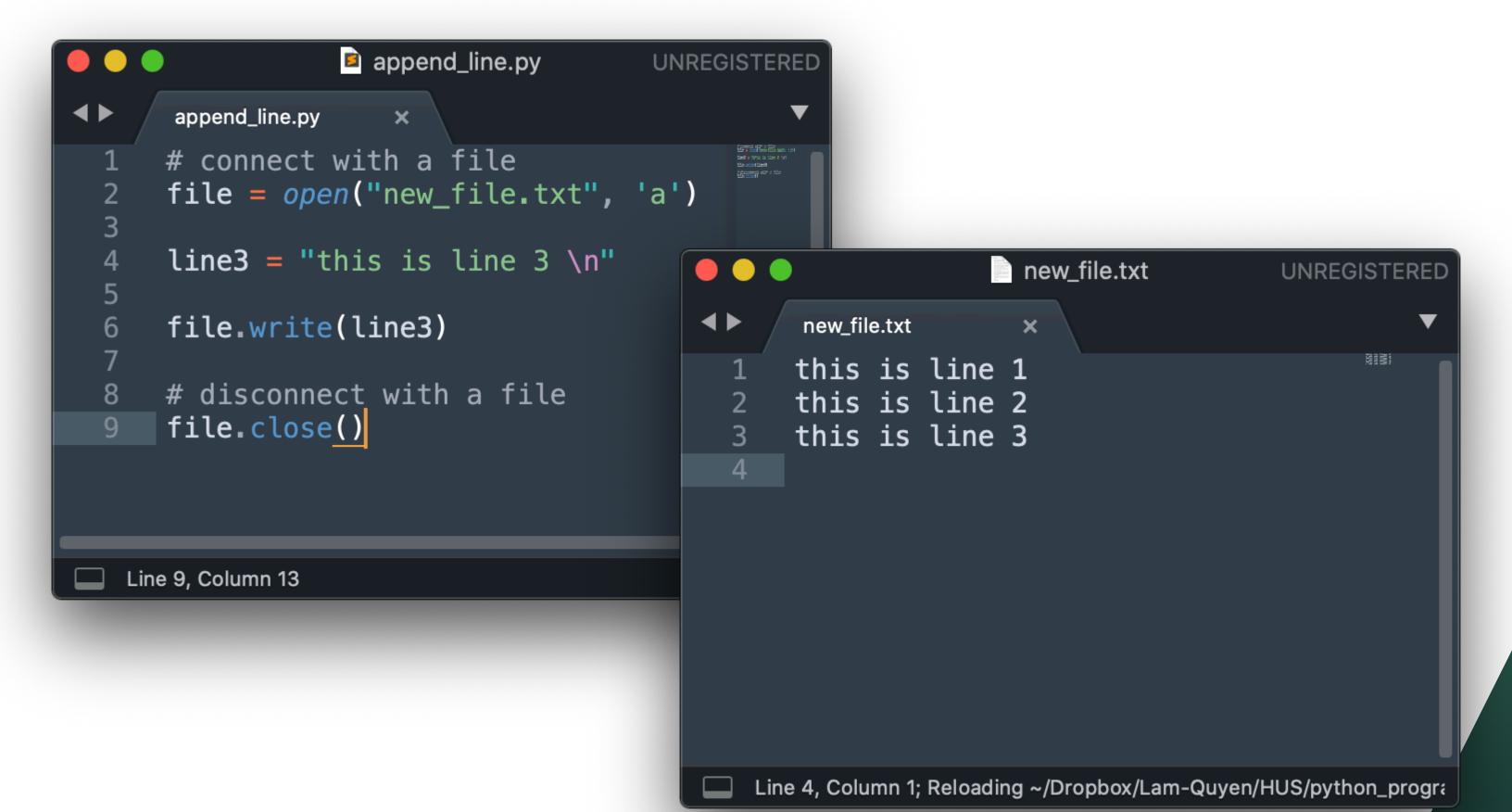
#### WRITE TO A FILE

file already exists (appending content if the file is exist)





- → open(file path, 'a')
- → write()
- → close()



#### **USEFUL FUNCTIONS**

Check if a file exists

```
check.py

import os

file_path1 = "example.txt"

check1 = os.path.exists(file_path1)

print("Does example.txt exist?", check1)

file_path2 = "data.txt"

check2 = os.path.exists(file_path2)

print("Does data.txt exist?", check2)

Line 9, Column 38

Tab Size: 4

Pyth
```

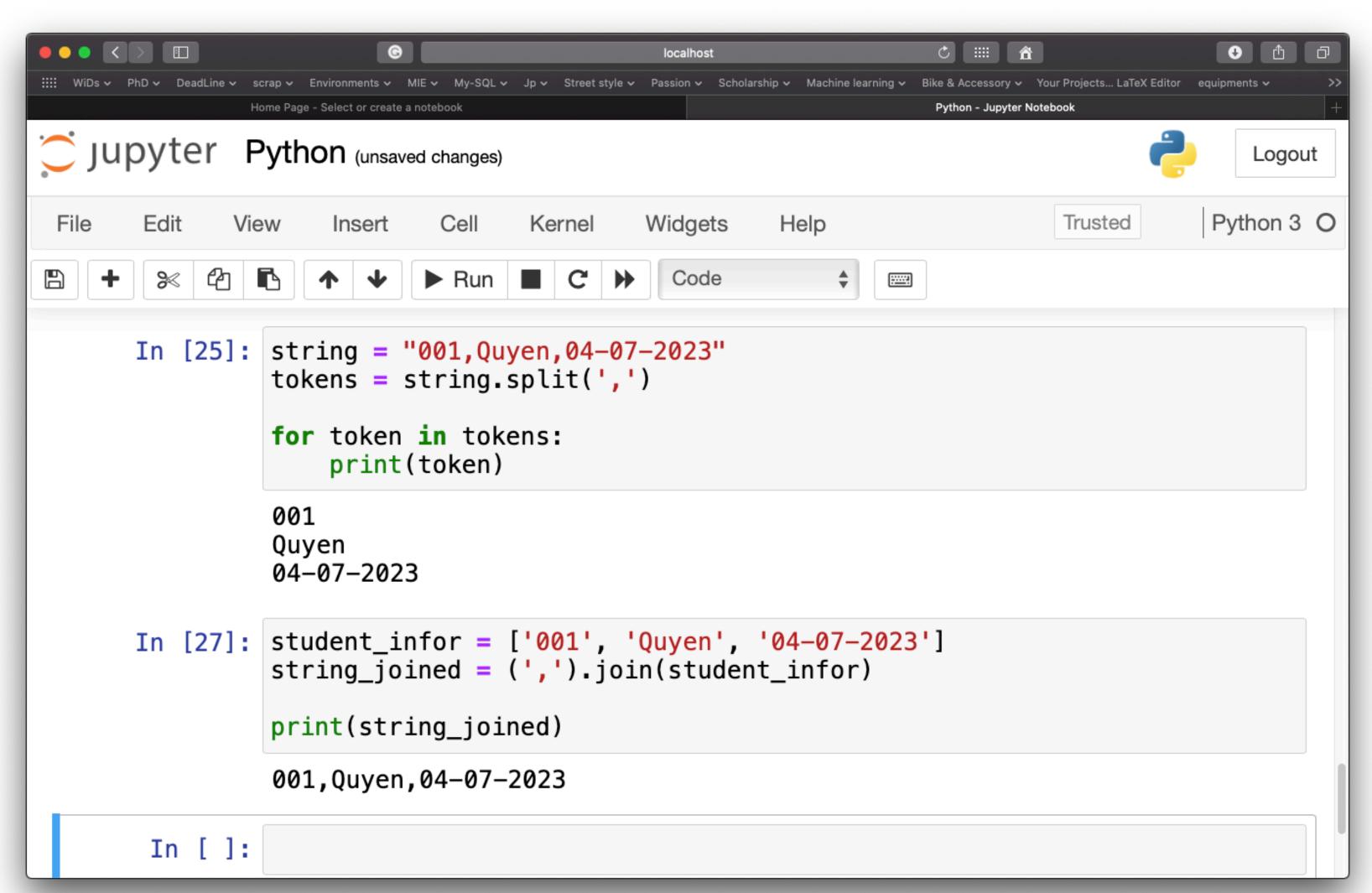
```
ex — -zsh — 53×13

[(base) mac@Quyens-MacBook-Pro ex % python check.py
Does example.txt exist? True
Does data.txt exist? False
(base) mac@Quyens-MacBook-Pro ex %

[(base) mac@Quyens-MacBook-Pro ex %]
```

#### **USEFUL FUNCTIONS**

String splitting/ String joining



#### **WORKING WITH FILE BY PANDAS**



- read csv, excel, text, ...
- export to csv, excel, ...

- → 1. Connect to file
- → 2. Read from/ write to file
- → 3. Disconnect to file

### **ASSIGNMENT**