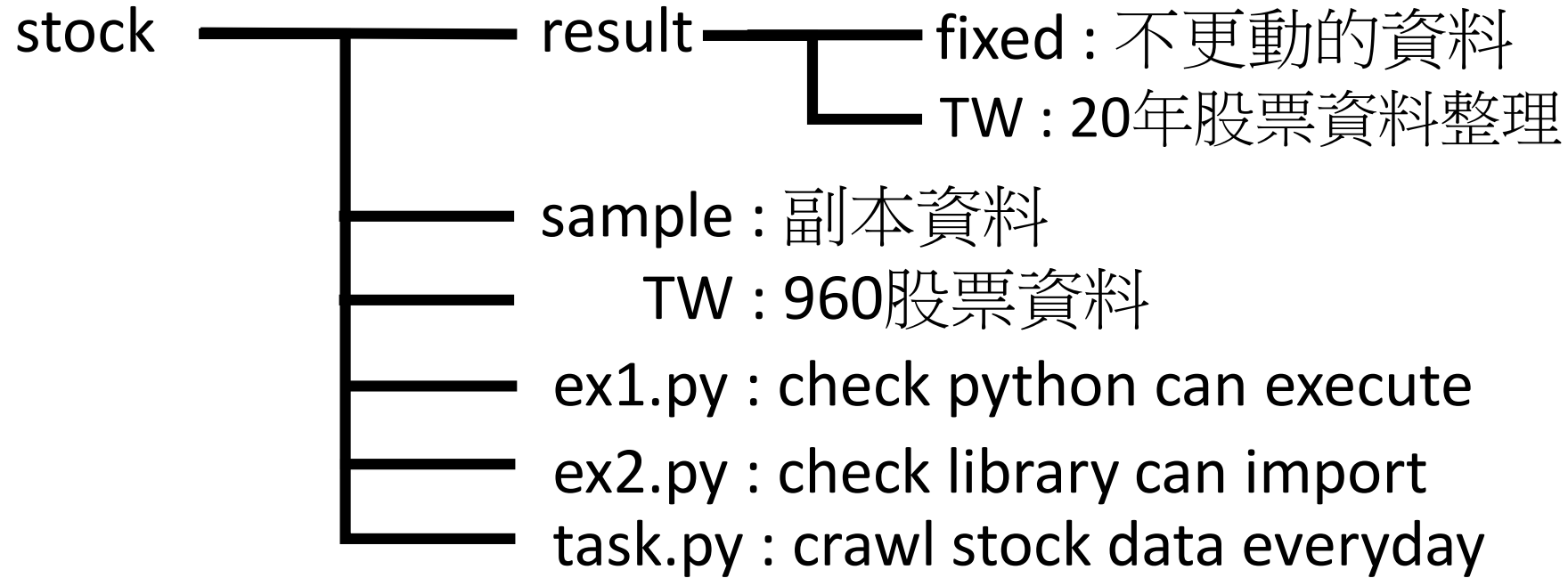


Auto crawl stock data tutorial

吳國瑋

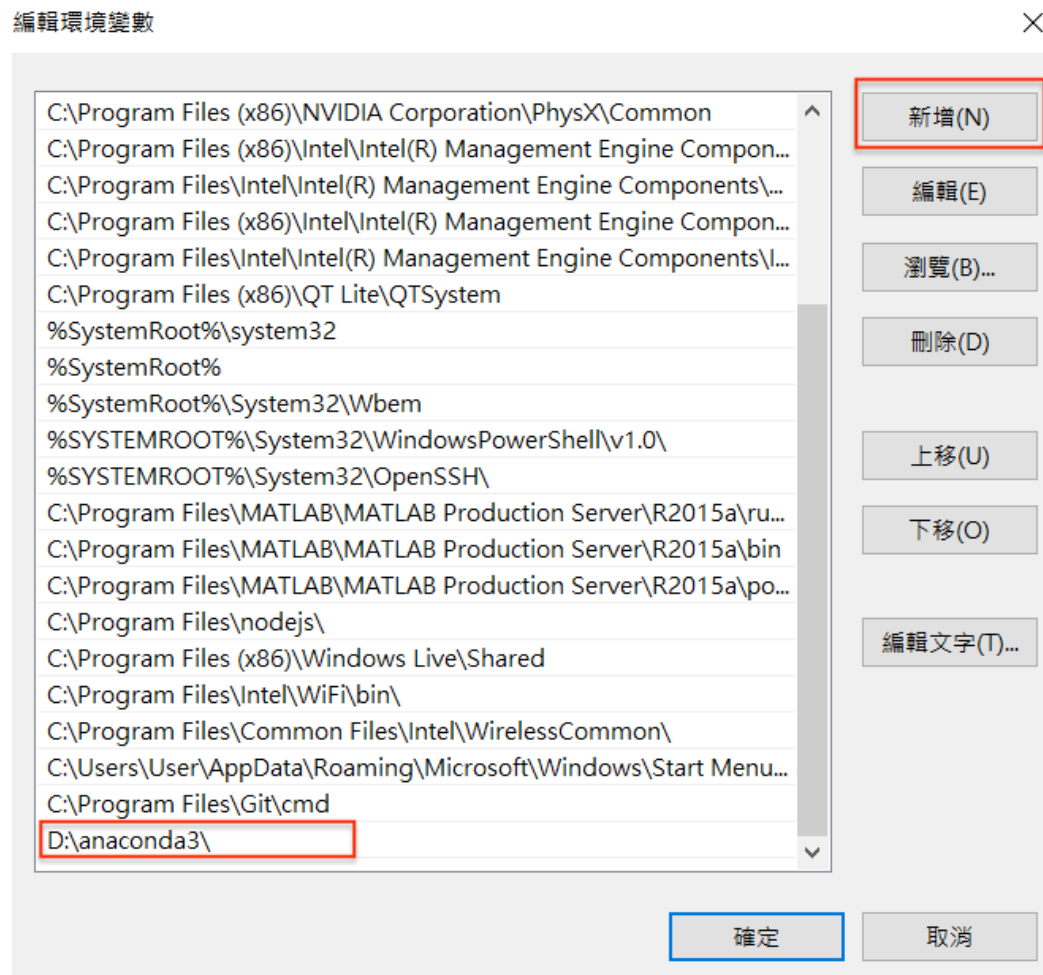
File Intro.



Anaconda 安裝

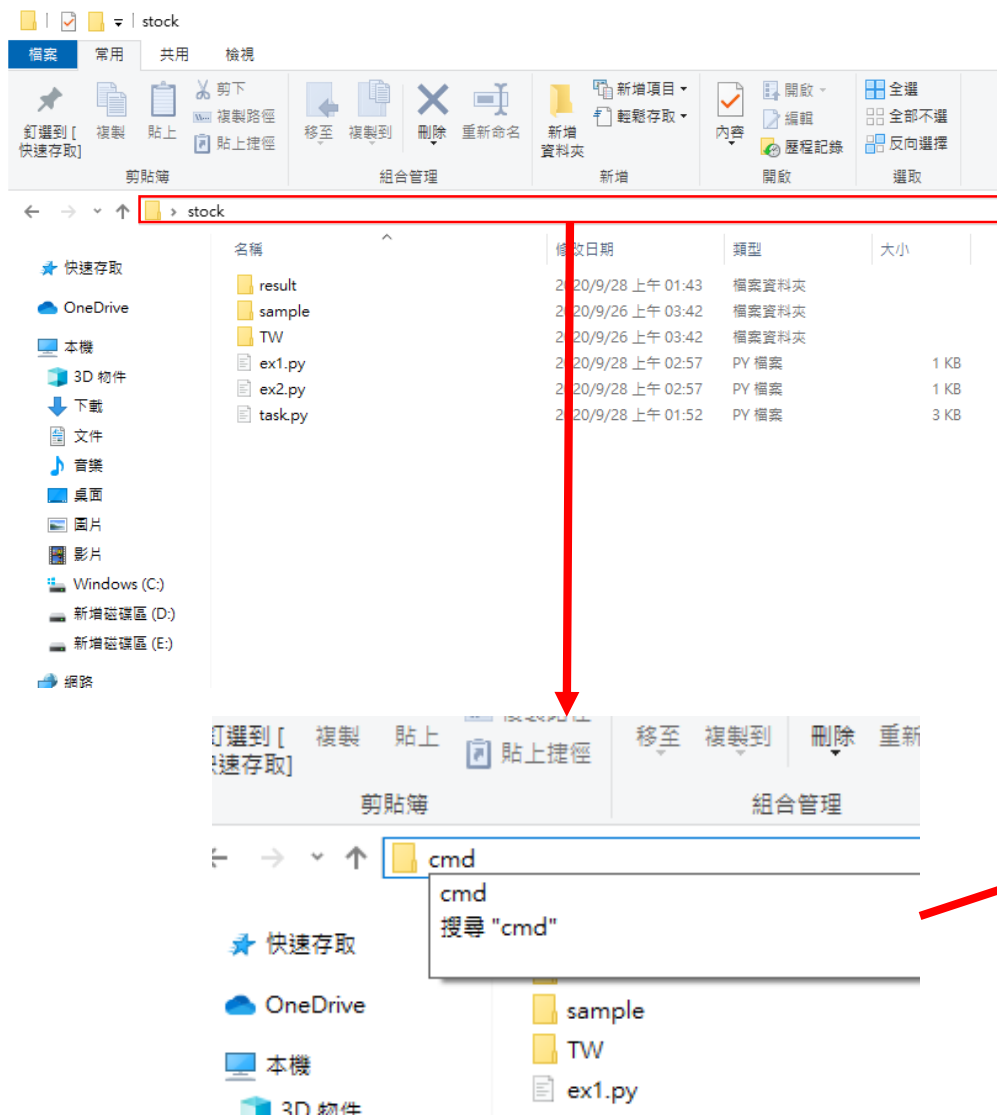
- <https://ithelp.ithome.com.tw/articles/10229662?sc=pt>

- 執行到右圖編輯環境變數

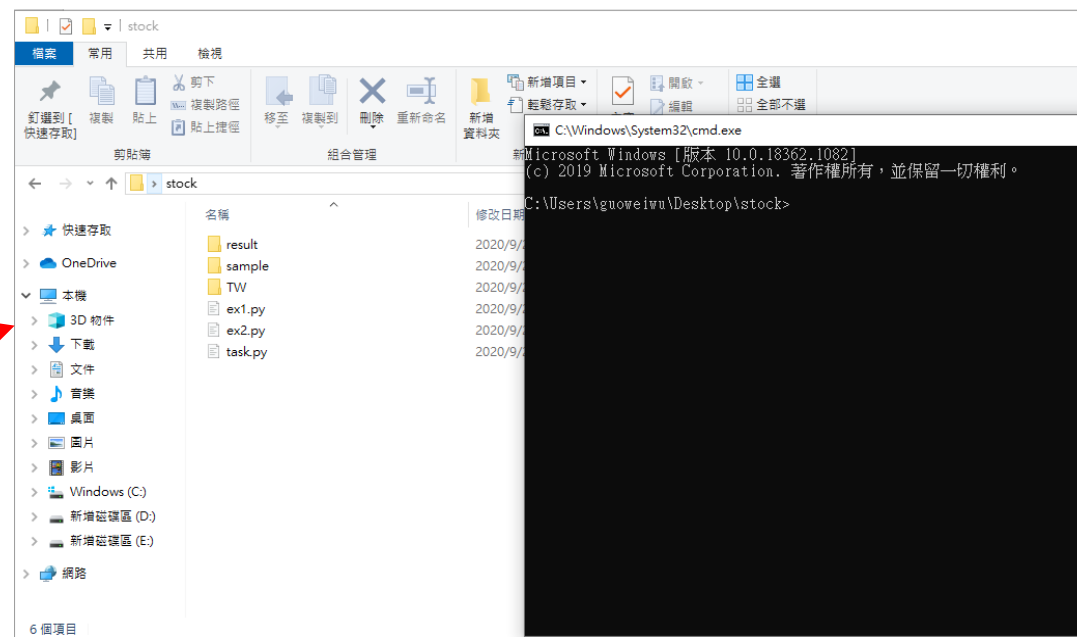


使用 conda 指令

Call cmd.exe terminal(命令提示字元)



- Step 1: unzip stock.zip
- Step 2: in stock folder type "cmd" and Enter to come out 命令提示字元 window like below



用anaconda建環境執行python(1)

- Step 1: type "conda create --name py36 python=3.6"
- Step 2: type "y"

```
C:\Users\guoweiwu\Desktop\stock>conda create --name py36 python=3.6
```

```
Proceed ([y]/n)?
```

```
CA: C:\Windows\System32\cmd.exe
```

```
done
#
# To activate this environment, use
#
#   $ conda activate py36
#
# To deactivate an active environment, use
#
#   $ conda deactivate
#
C:\Users\guoweiwu\Desktop\stock>
```

用anaconda建環境執行python(2)

- Step 1: type "conda activate py36"
- Step 2: check (py36)

```
C:\Windows\System32\cmd.exe
done
#
# To activate this environment, use
#
#     $ conda activate py36
#
# To deactivate an active environment, use
#
#     $ conda deactivate

C:\Users\guoweihu\Desktop\stock>conda activate py36
(py36) C:\Users\guoweihu\Desktop\stock>
```

用anaconda建環境執行python(3)

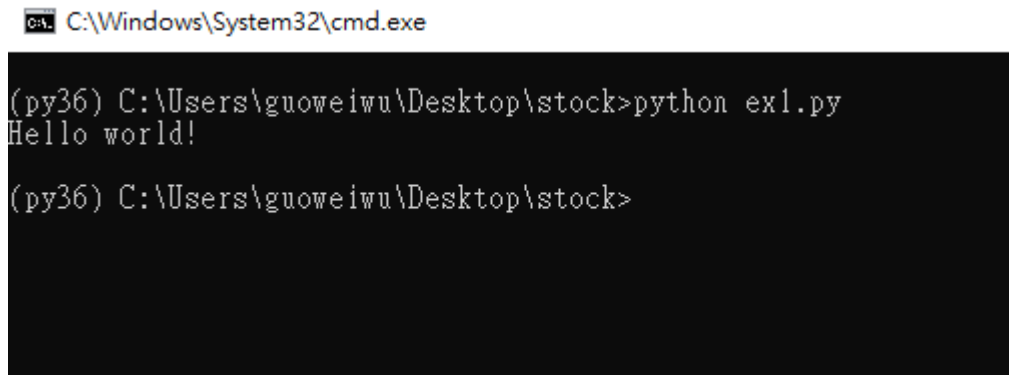
- Step 1: type "conda activate py36"
- Step 2: check (py36)

```
C:\Windows\System32\cmd.exe
done
#
# To activate this environment, use
#
#     $ conda activate py36
#
# To deactivate an active environment, use
#
#     $ conda deactivate

C:\Users\guoweihu\Desktop\stock>conda activate py36
(py36) C:\Users\guoweihu\Desktop\stock>
```

用anaconda建環境執行python(4)

- Step 1: type "python ex1.py" to execute "ex1.py" like below



```
C:\Windows\System32\cmd.exe

(py36) C:\Users\guoweiwu\Desktop\stock>python ex1.py
Hello world!

(py36) C:\Users\guoweiwu\Desktop\stock>
```


用anaconda建環境執行python(5)

- Step 1: need to install library for successfully import
- Step 2: type "pip install pandas pandas_datareader yfinance schedule xlrd openpyxl"

Step 3: type "python ex2.py" to execute "ex2.py"

```
(py36) C:\Users\guoweiwu\Desktop\stock>pip install pandas pandas_datareader yfinance schedule
Collecting pandas
  Downloading pandas-1.1.2-cp36-cp36m-win_amd64.whl (9.4 MB)
    |#####| 9.4 MB 2.2 MB/s
Collecting pandas_datareader
  Using cached pandas_datareader-0.9.0-py3-none-any.whl (107 kB)
Processing c:\users\guoweiwu\appdata\local\pip\cache\wheels\fa\9e\3b\ec24dd2984b12d61e0abf26289746c
Collecting schedule
  Using cached schedule-0.6.0-py2.py3-none-any.whl (8.7 kB)
Collecting pytz>=2017.2
  Downloading pytz-2020.1-py2.py3-none-any.whl (510 kB)
    |#####| 510 kB 2.2 MB/s
Collecting python-dateutil>=2.7.3
  Downloading python_dateutil-2.8.1-py2.py3-none-any.whl (227 kB)
    |#####| 227 kB 2.2 MB/s
Collecting numpy>=1.15.4
  Downloading numpy-1.19.2-cp36-cp36m-win_amd64.whl (12.9 MB)
    |#####| 12.9 MB 1.6 MB/s
Collecting requests>=2.19.0
  Downloading requests-2.24.0-py2.py3-none-any.whl (61 kB)
    |#####| 61 kB 4.8 MB/s
Collecting lxml
  Downloading lxml-4.5.2-cp36-cp36m-win_amd64.whl (3.5 MB)
    |#####| 3.5 MB 1.6 MB/s
Processing c:\users\guoweiwu\appdata\local\pip\cache\wheels\37\fa\73\d492849e319038eb4d986f5152e4b1
Collecting six>=1.5
  Downloading six-1.15.0-py2.py3-none-any.whl (10 kB)
Collecting chardet<4,>=3.0.2
  Using cached chardet-3.0.4-py2.py3-none-any.whl (133 kB)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\guoweiwu\anaconda3\envs\py36\lib\site
Collecting idna<3,>=2.5
  Downloading idna-2.10-py2.py3-none-any.whl (58 kB)
    |#####| 58 kB 1.2 MB/s
Collecting urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1
  Downloading urllib3-1.25.10-py2.py3-none-any.whl (127 kB)
    |#####| 127 kB 2.2 MB/s
Installing collected packages: pytz, six, python-dateutil, numpy, pandas, chardet, idna, urllib3, r
Successfully installed chardet-3.0.4 idna-2.10 lxml-4.5.2 multitasking-0.0.9 numpy-1.19.2 pandas-1.
(py36) C:\Users\guoweiwu\Desktop\stock>
```

C:\Windows\System32\cmd.exe

```
(py36) C:\Users\guoweiwu\Desktop\stock>python ex2.py
import successfully!!!

(py36) C:\Users\guoweiwu\Desktop\stock>
```

用anaconda建環境執行python(6)

- Step 1: In task.py, choose a time in a day "00:00~23:59" to execute crawl stock data periodically
- Step 2: In line 69(task.py), modify "10:30" and ctrl-s to save
- Step 3: type "python task.py" to execute " task.py"

```
62         new_df[ST]=df_temp[ST]
63         print(ST)
64
65         # store data
66         new_df.to_excel("./result/"+ST[0:4]+".xlsx", index=False)
67
68     # choose a time to do job()
69     schedule.every().day.at("10:30").do(job)
70
71     while True:
72         schedule.run_pending()
73         time.sleep(1)
74
```