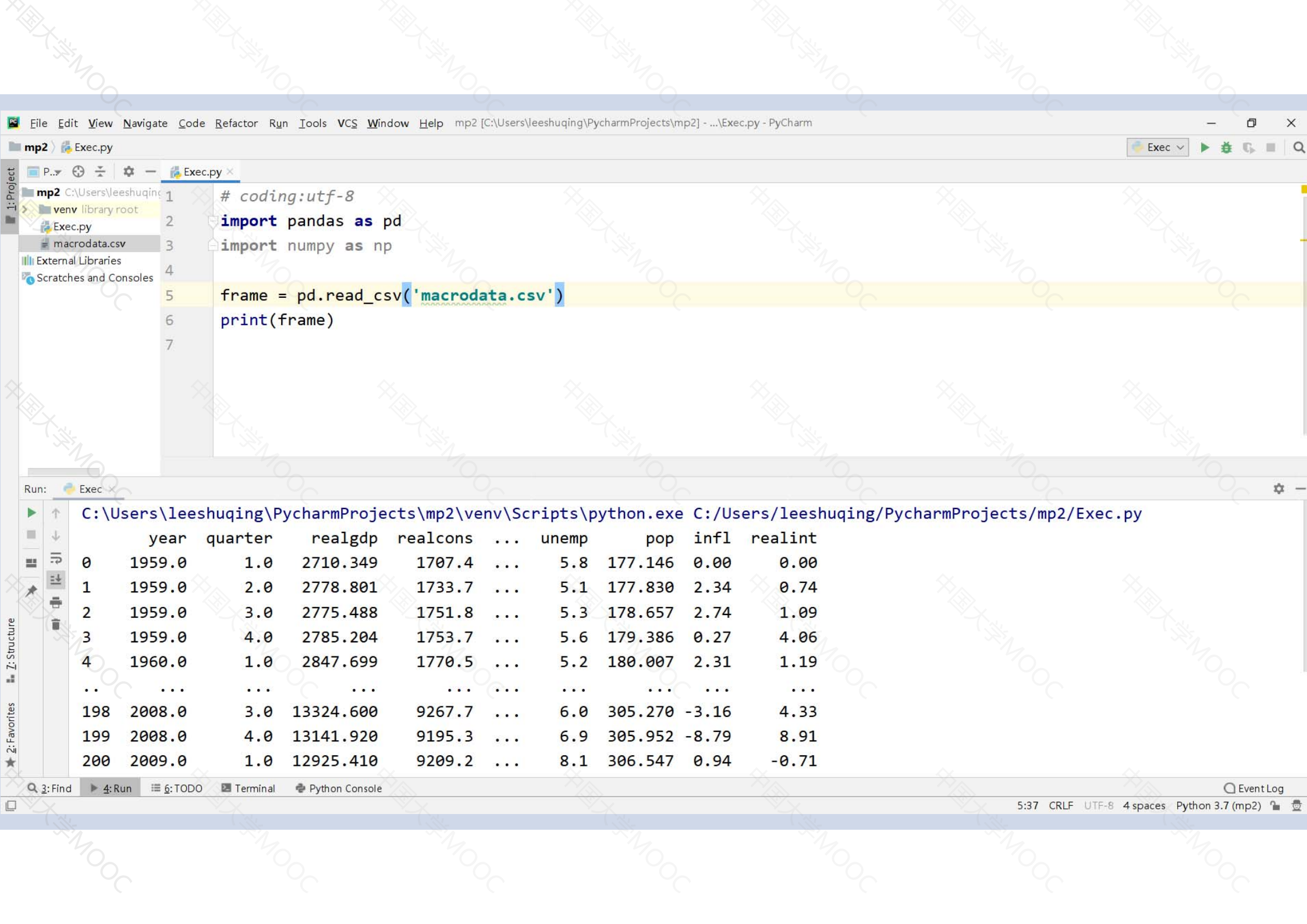


# Python大数据分析

案例1：每天股票涨了多少？

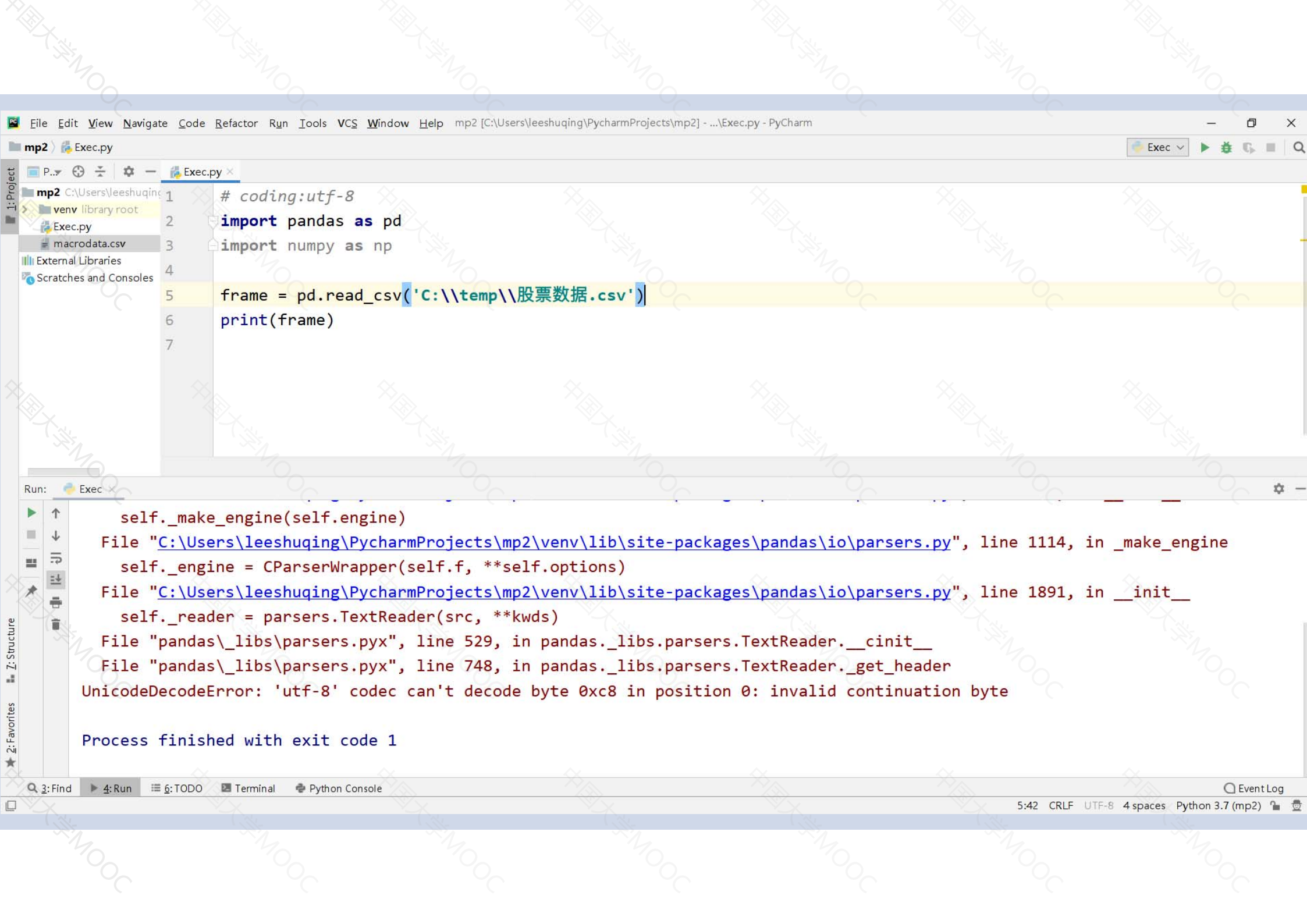


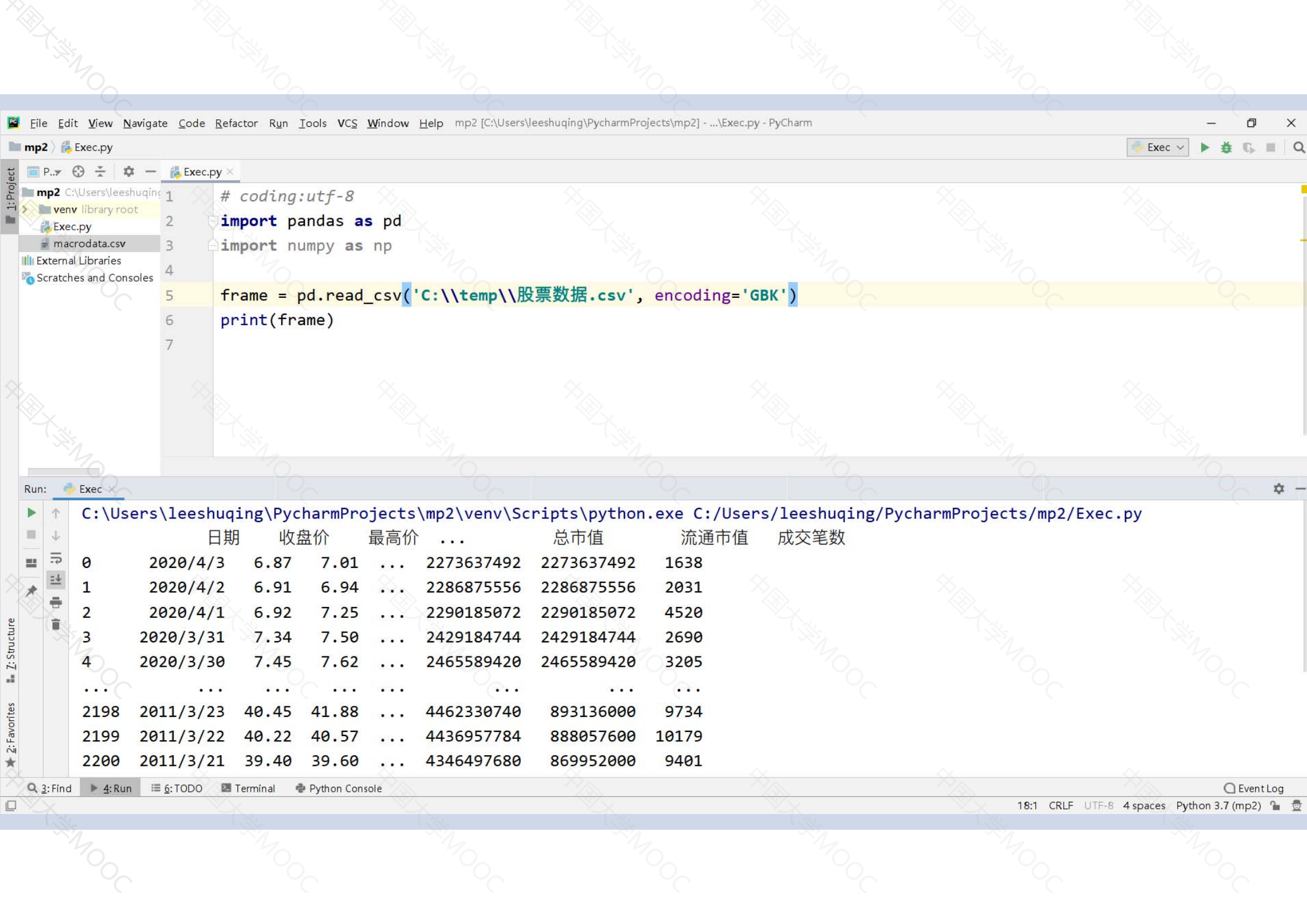
```
# coding:utf-8
import pandas as pd
import numpy as np

frame = pd.read_csv('macrodata.csv')
print(frame)
```

C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py

	year	quarter	realgdp	realcons	...	unemp	pop	infl	realint
0	1959.0	1.0	2710.349	1707.4	...	5.8	177.146	0.00	0.00
1	1959.0	2.0	2778.801	1733.7	...	5.1	177.830	2.34	0.74
2	1959.0	3.0	2775.488	1751.8	...	5.3	178.657	2.74	1.09
3	1959.0	4.0	2785.204	1753.7	...	5.6	179.386	0.27	4.06
4	1960.0	1.0	2847.699	1770.5	...	5.2	180.007	2.31	1.19
..	...	...	...	...	...	...	...	...	...
198	2008.0	3.0	13324.600	9267.7	...	6.0	305.270	-3.16	4.33
199	2008.0	4.0	13141.920	9195.3	...	6.9	305.952	-8.79	8.91
200	2009.0	1.0	12925.410	9209.2	...	8.1	306.547	0.94	-0.71

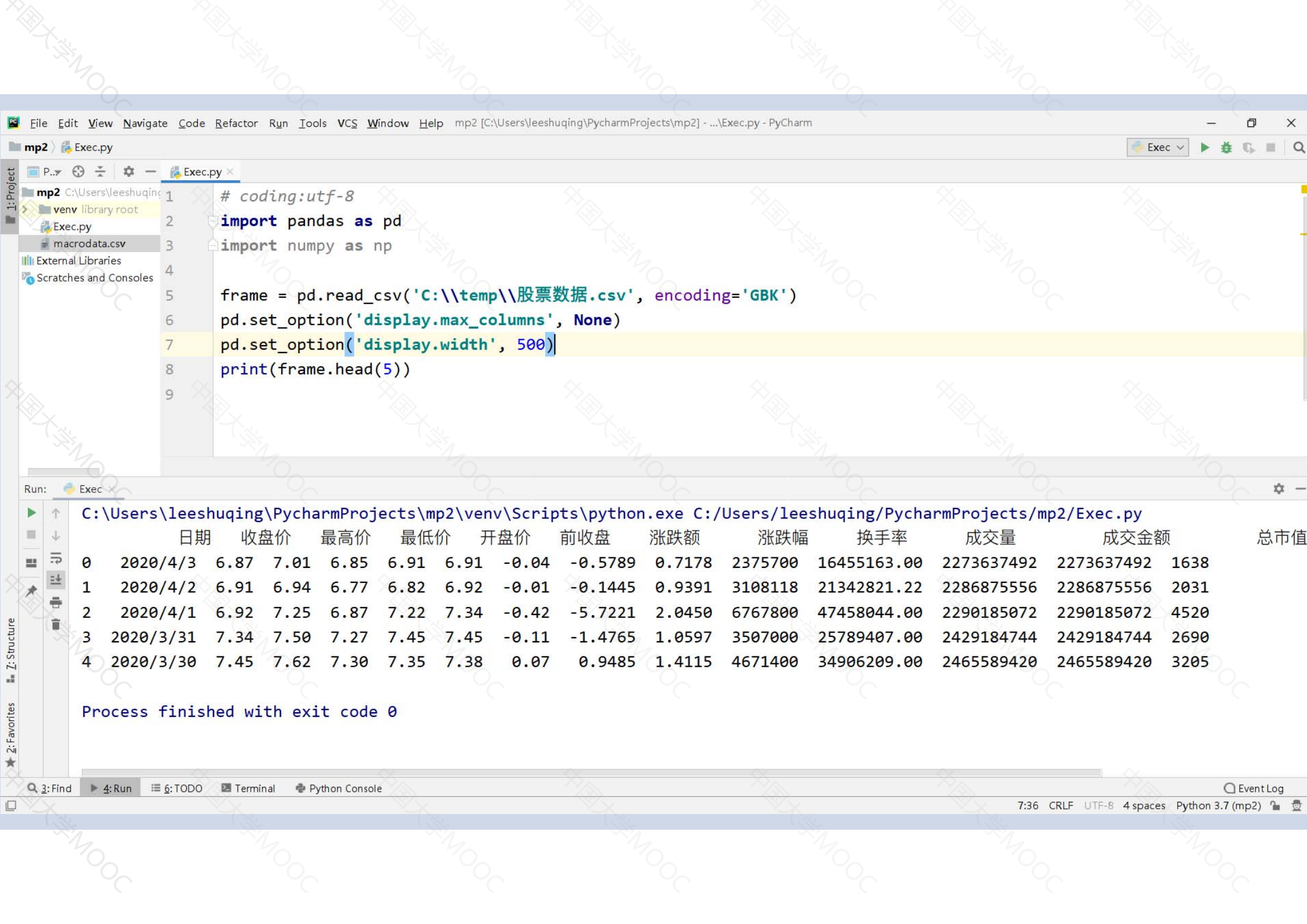












```
# coding:utf-8
import pandas as pd
import numpy as np

frame = pd.read_csv('C:\\temp\\股票数据.csv', encoding='GBK')
pd.set_option('display.max_columns', None)
pd.set_option('display.width', 500)
print(frame.head(5))
```

Run: Exec

C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py

	日期	收盘价	最高价	最低价	开盘价	前收盘	涨跌额	涨跌幅	换手率	成交量	成交金额	成交金额	成交金额	总市值
0	2020/4/3	6.87	7.01	6.85	6.91	6.91	-0.04	-0.5789	0.7178	2375700	16455163.00	2273637492	2273637492	1638
1	2020/4/2	6.91	6.94	6.77	6.82	6.92	-0.01	-0.1445	0.9391	3108118	21342821.22	2286875556	2286875556	2031
2	2020/4/1	6.92	7.25	6.87	7.22	7.34	-0.42	-5.7221	2.0450	6767800	47458044.00	2290185072	2290185072	4520
3	2020/3/31	7.34	7.50	7.27	7.45	7.45	-0.11	-1.4765	1.0597	3507000	25789407.00	2429184744	2429184744	2690
4	2020/3/30	7.45	7.62	7.30	7.35	7.38	0.07	0.9485	1.4115	4671400	34906209.00	2465589420	2465589420	3205

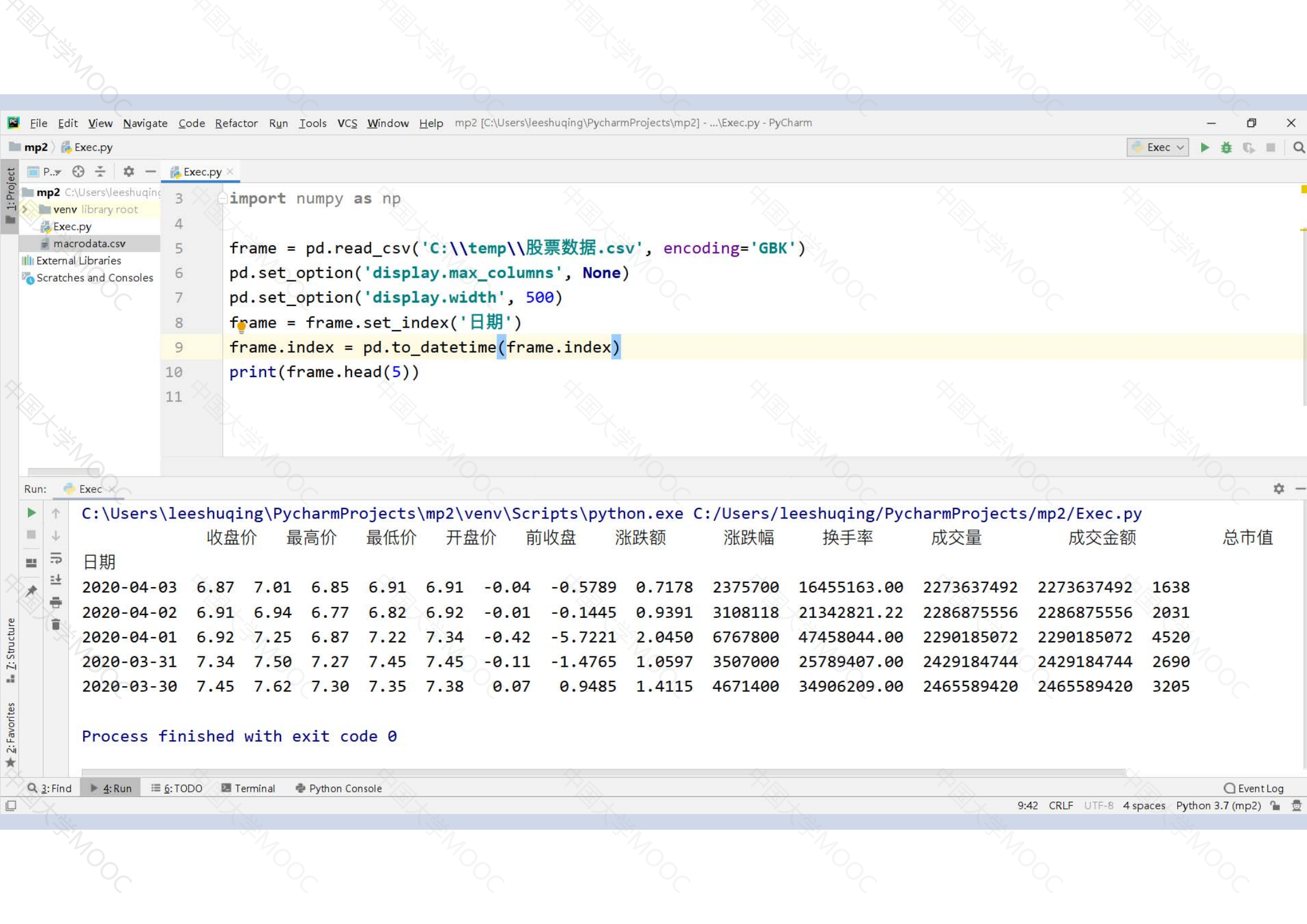
Process finished with exit code 0

3: Find 4: Run 5: TODO Terminal Python Console

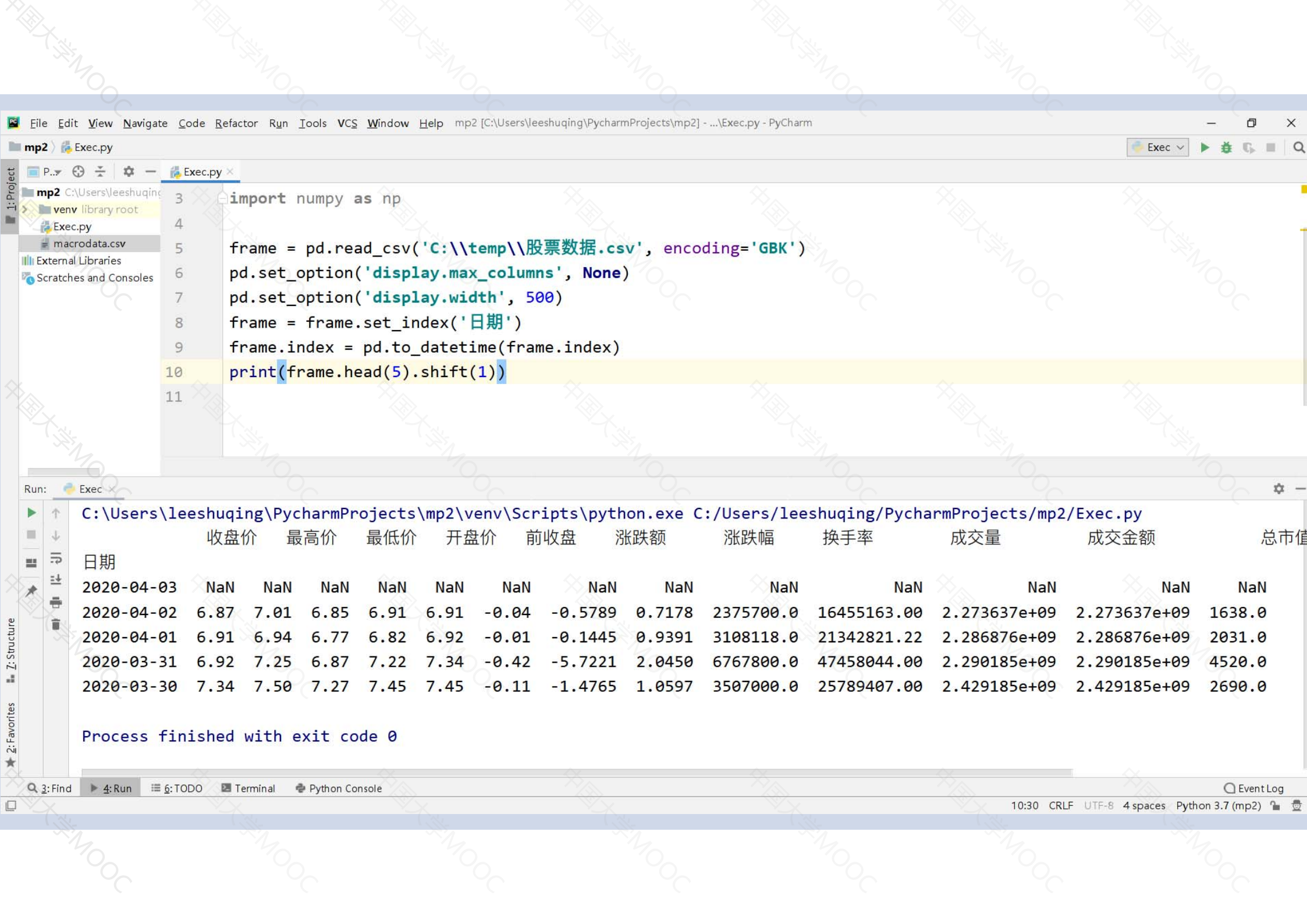
Event Log

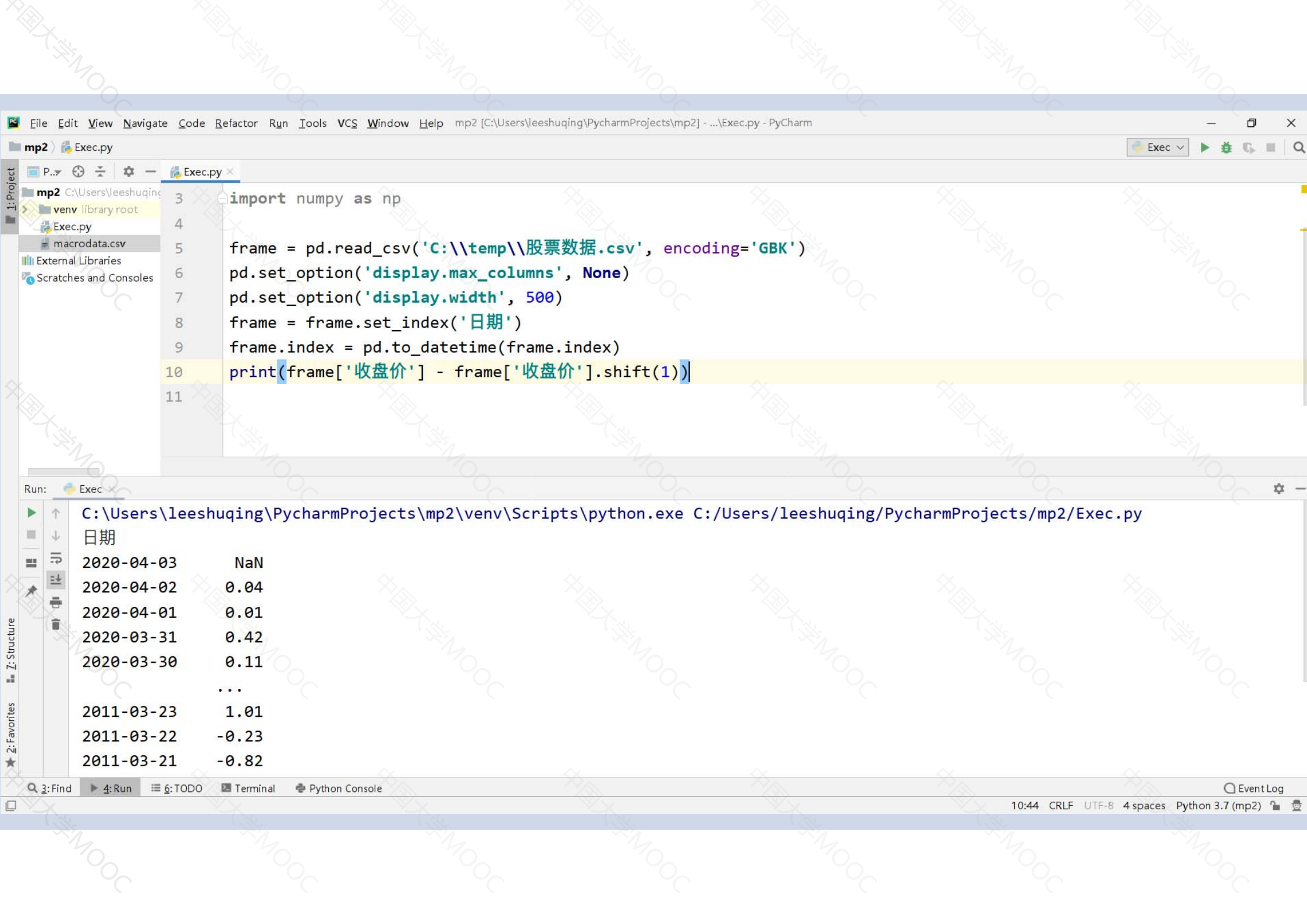
7:36 CRLF UTF-8 4 spaces Python 3.7 (mp2)











File Edit View Navigate Code Refactor Run Tools VCS Window Help mp2 [C:\Users\leeshuqing\PycharmProjects\mp2] - ...Exec.py - PyCharm

mp2 Exec.py

Exec

1: Project  
mp2 C:\Users\leeshuqing\PycharmProjects\mp2  
venv library root  
Exec.py  
macrodata.csv  
External Libraries  
Scratches and Consoles

```
3 import numpy as np
4
5 frame = pd.read_csv('C:\\temp\\股票数据.csv', encoding='GBK')
6 pd.set_option('display.max_columns', None)
7 pd.set_option('display.width', 500)
8 frame = frame.set_index('日期')
9 frame.index = pd.to_datetime(frame.index)
10 print(frame['收盘价'] - frame['收盘价'].shift(1))
11
```

Run: Exec

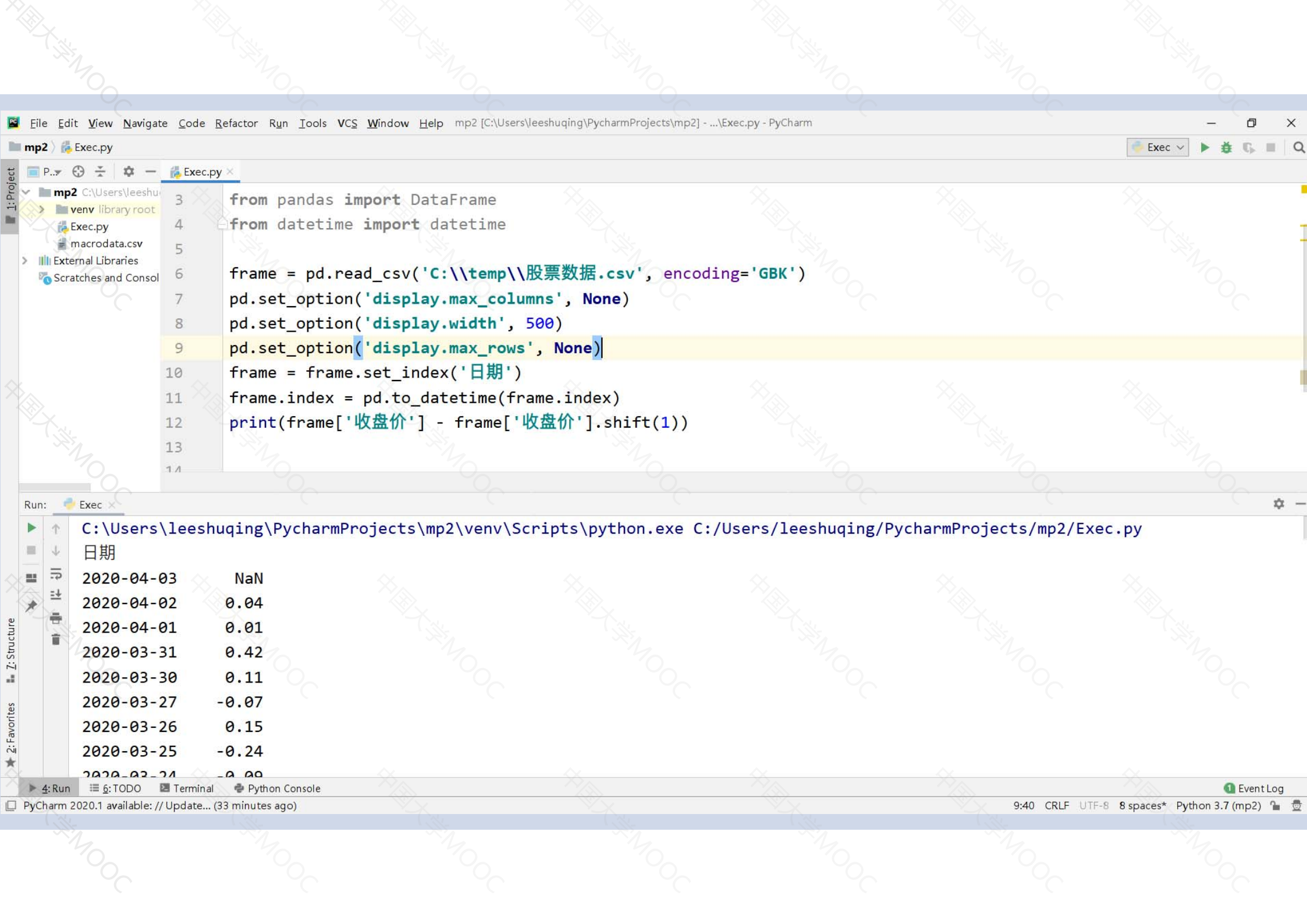
C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py

日期	
2020-04-03	NaN
2020-04-02	0.04
2020-04-01	0.01
2020-03-31	0.42
2020-03-30	0.11
...	
2011-03-23	1.01
2011-03-22	-0.23
2011-03-21	-0.82

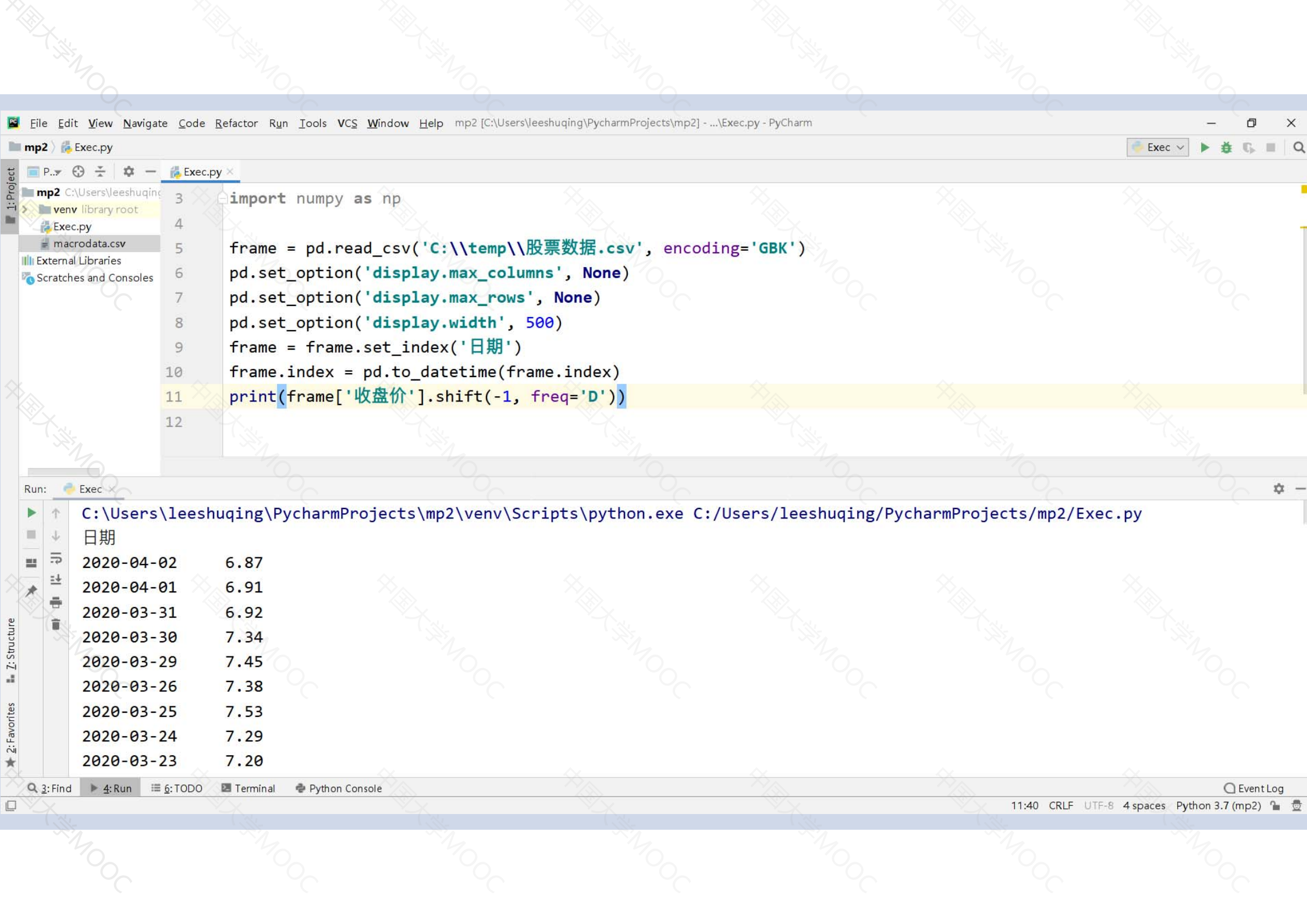
3: Find 4: Run 6: TODO Terminal Python Console

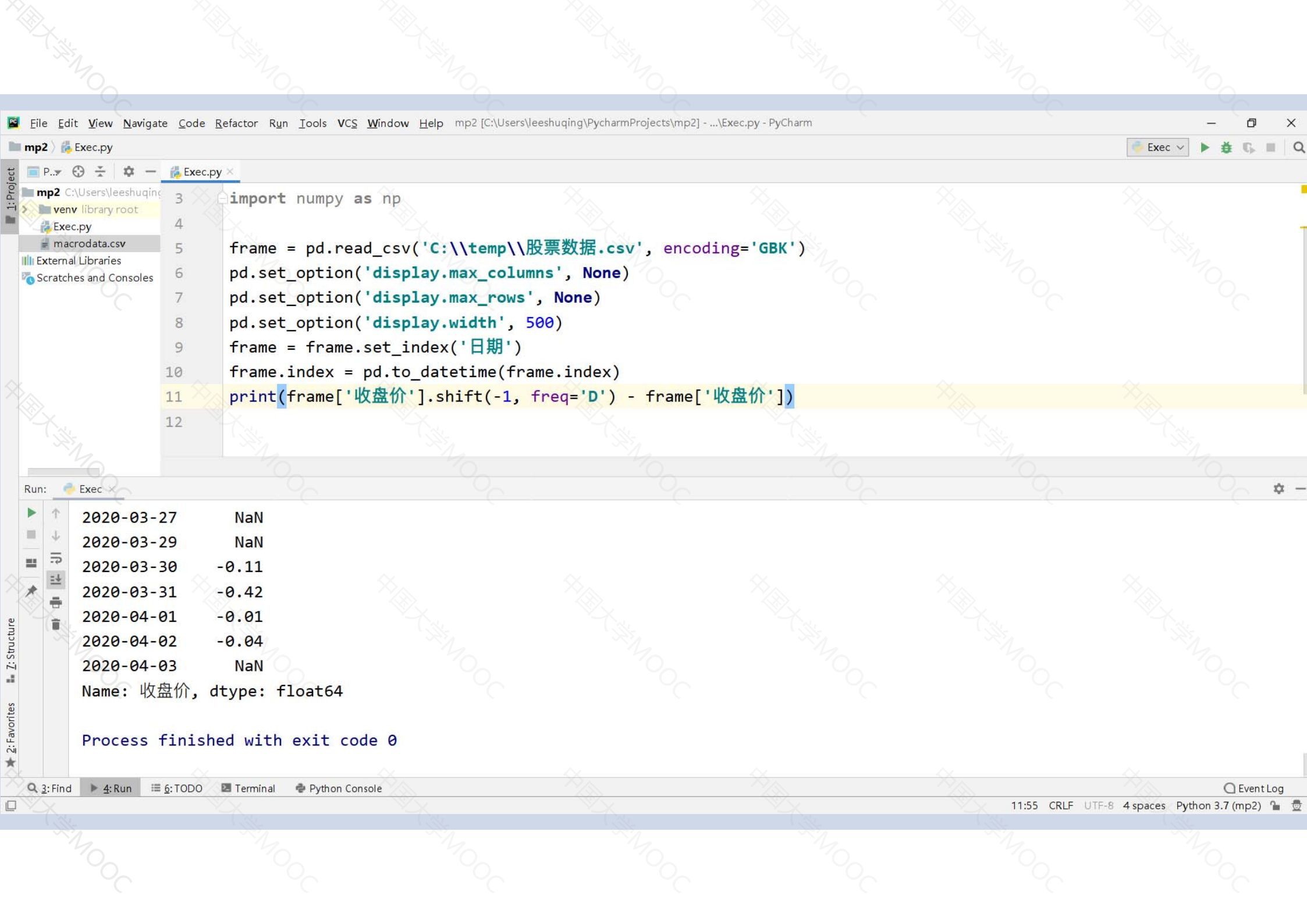
Event Log

10:44 CRLF UTF-8 4 spaces Python 3.7 (mp2)









**一次不学多，下次再学**