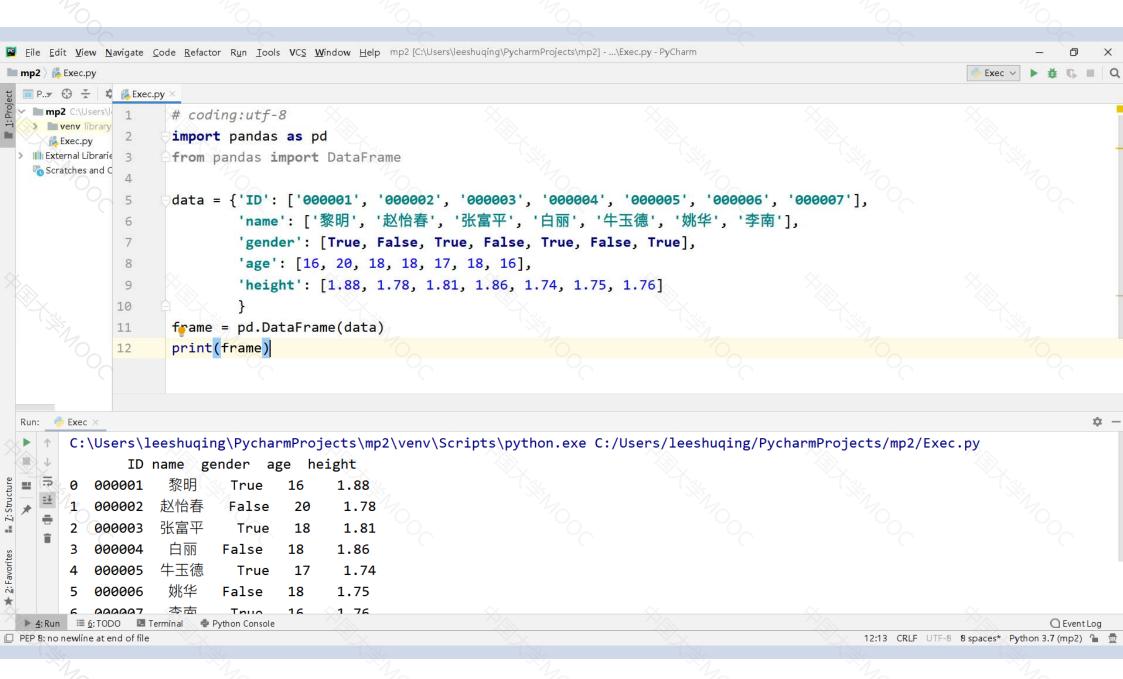
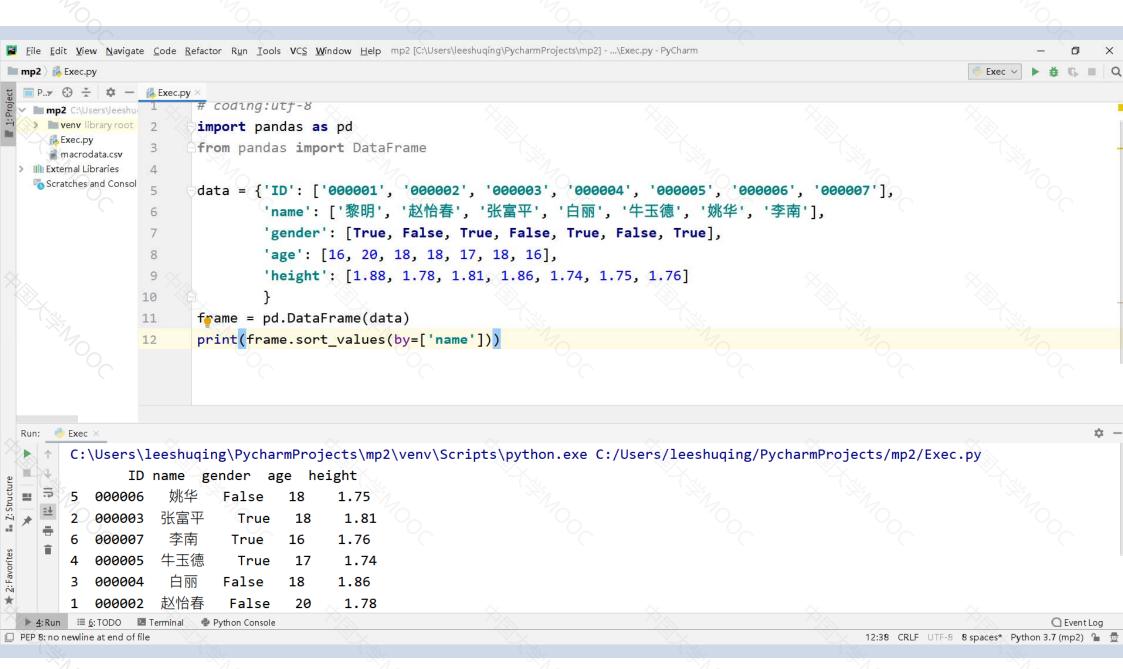
Python大数据分析

五、数据的排序



```
星 Eile Edit View Navigate Code Refactor Run Iools VCS Window Help mp2 [C:\Users\leeshuqing\PycharmProjects\mp2] - ...\Exec.py - PyCharm
   # coding:utj-8
   mp2 C:\Users\l
   > le venv library 2
                     import pandas as pd
     Exec.py
                    from pandas import DataFrame
   III External Librarie
   Scratches and C 4
                     data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
               5
                             'name': ['黎明','赵怡春','张富平','白丽','牛玉德','姚华','李南'],
               6
                             'gender': [True, False, True, False, True, False, True],
               7
                             'age': [16, 20, 18, 18, 17, 18, 16],
               8
                             'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
              10
                    frame = pd.DataFrame(data)
              11
                    frame = frame.reindex([6, 5, 4, 3, 2, 1, 0])
              12
                     print(frame)
              13
       Exec ×
       C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py
               ID name gender age height
                    李南
           000007
                            True
                                   16
                                          1.76
                    姚华
          000006
                           False
                                   18
                                          1.75
          000005
                   牛玉德
                             True
                                    17
                                          1.74
                    000004
                           False
                                          1.86
                                   18
                   张富平
           000003
                             True
                                    18
                                          1.81
           000002
                   赵怡春
                            False
                                    20
                                          1.78
                    秒阳
           aaaaa1
                                          1 00
        Python Console
                                                                                                              12:45 CRLF UTF-8 8 spaces* Python 3.7 (mp2) 🦫 👨
```

```
星 Eile Edit View Navigate Code Refactor Run Iools VCS Window Help mp2 [C:\Users\leeshuqing\PycharmProjects\mp2] - ...\Exec.py - PyCharm
    P..y 💮 😤 🗯 Exec.py ×
                     # coding:utj-8
   mp2 C:\Users\l
   > le venv library 2
                     import pandas as pd
     Exec.py
                     from pandas import DataFrame
   III External Librarie
   Scratches and C 4
                     data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
               5
                              'name': ['黎明','赵怡春','张富平','白丽','牛玉德','姚华','李南'],
               6
                              'gender': [True, False, True, False, True, False, True],
               7
                              'age': [16, 20, 18, 18, 17, 18, 16],
               8
                              'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
              10
                     frame = pd.DataFrame(data)
              11
                     print(frame.sort values(by=['height']))
              12
              13
        C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py
               ID name gender age height
           000005 牛玉德
                             True
                                     17
                                           1.74
                    姚华
                           False
           000006
                                    18
                                           1.75
                    李南
           000007
                            True
                                    16
                                           1.76
                   赵怡春
                            False
           000002
                                     20
                                           1.78
           000003
                   张富平
                             True
                                          1.81
                                    18
                    白丽
           000004
                            False
                                    18
                                           1.86
                     黎明
           000001
                             True
                                    16
                                           1.88
        Python Console
                                                                                                                12:40 CRLF UTF-8 8 spaces* Python 3.7 (mp2) 🦫 👨
```



print('XX'.encode())

• 黎明

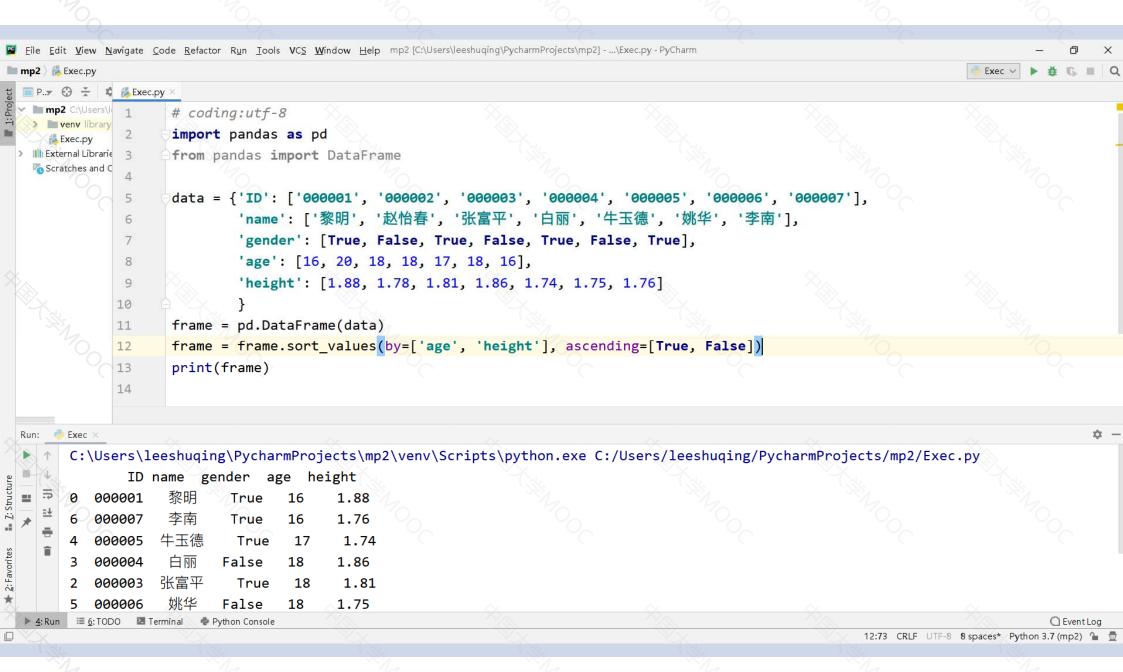
```
姚华 \xe5\xa7\x9a\xe5\x8d\x8e
张富平 \xe5\xbc\xa0\xe5\xaf\x8c\xe5\xb9\xb3
李南 \xe6\x9d\x8e\xe5\x8d\x97
牛玉德 \xe7\x89\x9b\xe7\x8e\x89\xe5\xbe\xb7
白丽 \xe7\x99\xbd\xe4\xb8\xbd
赵怡春 \xe8\xb5\xb5\xe6\x80\xa1\xe6\x98\xa5
```

 $xe9\xb\x8e\xe6\x98\x8e$

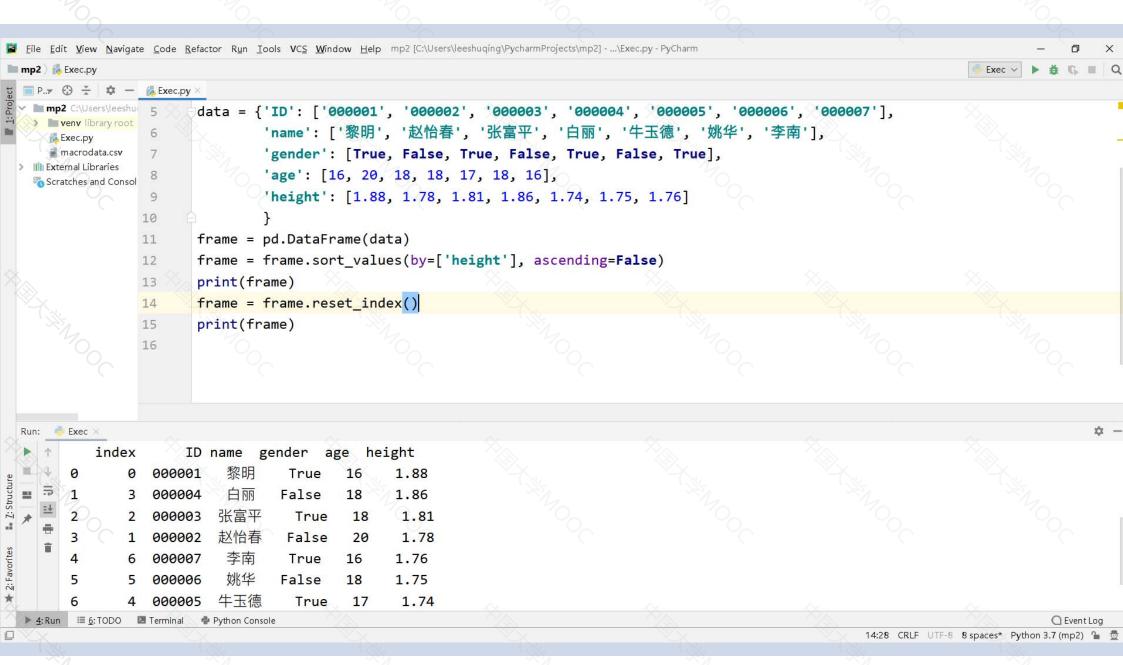
```
星 Eile Edit View Navigate Code Refactor Run Iools VCS Window Help mp2 [C:\Users\leeshuqing\PycharmProjects\mp2] - ...\Exec.py - PyCharm
    P..y 🕀 😤 🛱 🐔 Exec.py ×
                     # coding:utj-8
   mp2 C:\Users\l
   > le venv library 2
                     import pandas as pd
     Exec.py
                     from pandas import DataFrame
   III External Librarie
   Scratches and C 4
                     data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
               5
                              'name': ['黎明','赵怡春','张富平','白丽','牛玉德','姚华','李南'],
               6
                               'gender': [True, False, True, False, True, False, True],
               7
                               'age': [16, 20, 18, 18, 17, 18, 16],
               8
                              'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
              10
                     frame = pd.DataFrame(data)
              11
                      print(frame.sort values(by=['height'], ascending=False))
              12
              13
        C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py
               ID name gender age height
                     黎明
           000001
                             True
                                     16
                                            1.88
                     白丽
                            False
           000004
                                     18
                                            1.86
        2 000003
                    张富平
                             True
                                      18
                                           1.81
                   赵怡春
           000002
                            False
                                      20
                                           1.78
                     李南
           000007
                             True
                                     16
                                            1.76
                     姚华
                            False
           000006
                                     18
                                            1.75
                    牛玉德
                                            1.74
           000005
                              True
                                      17

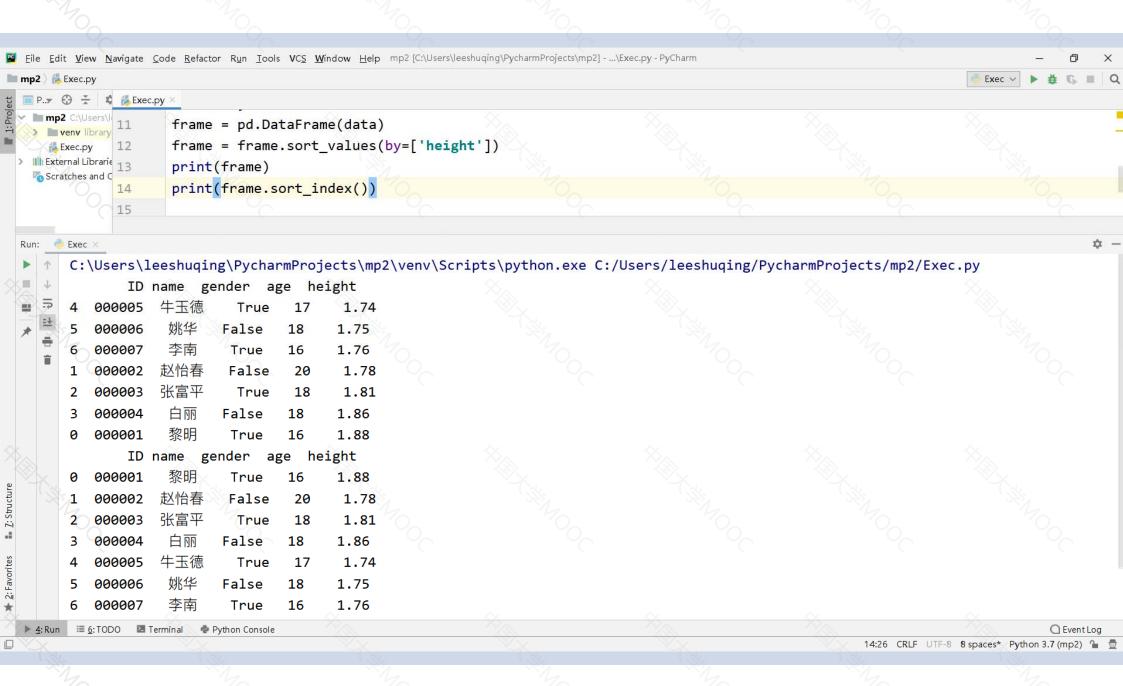
    ▼ Terminal

                         Python Console
                                                                                                                  12:57 CRLF UTF-8 8 spaces* Python 3.7 (mp2) 🦫 👨
```

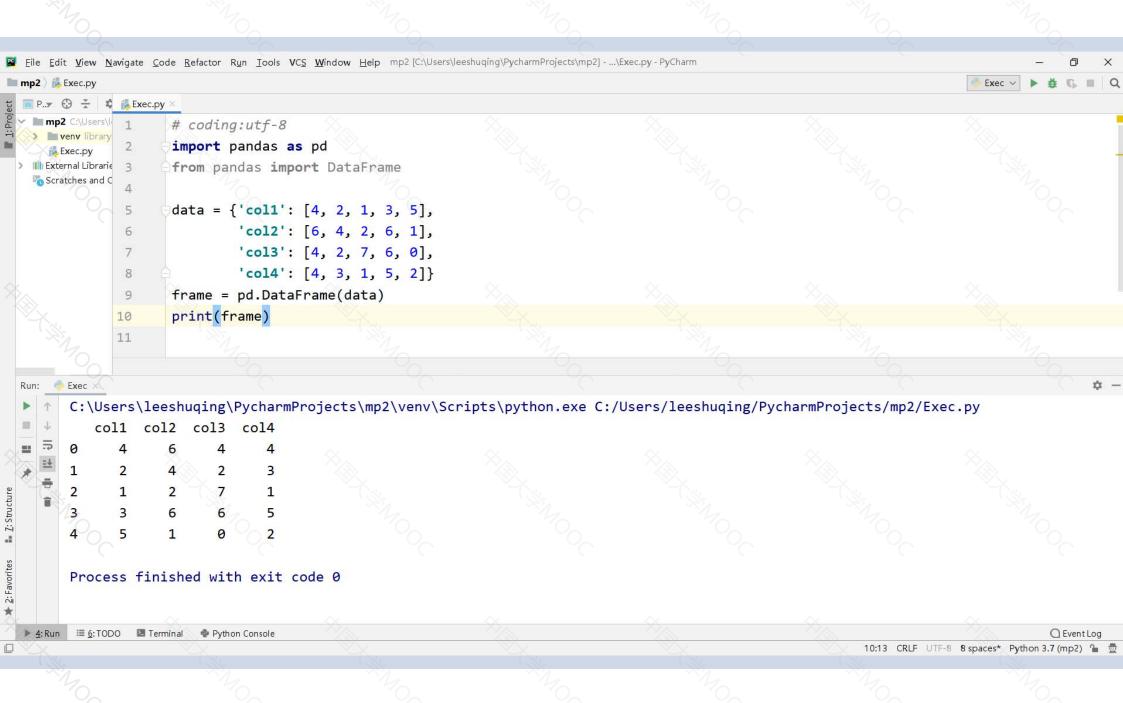


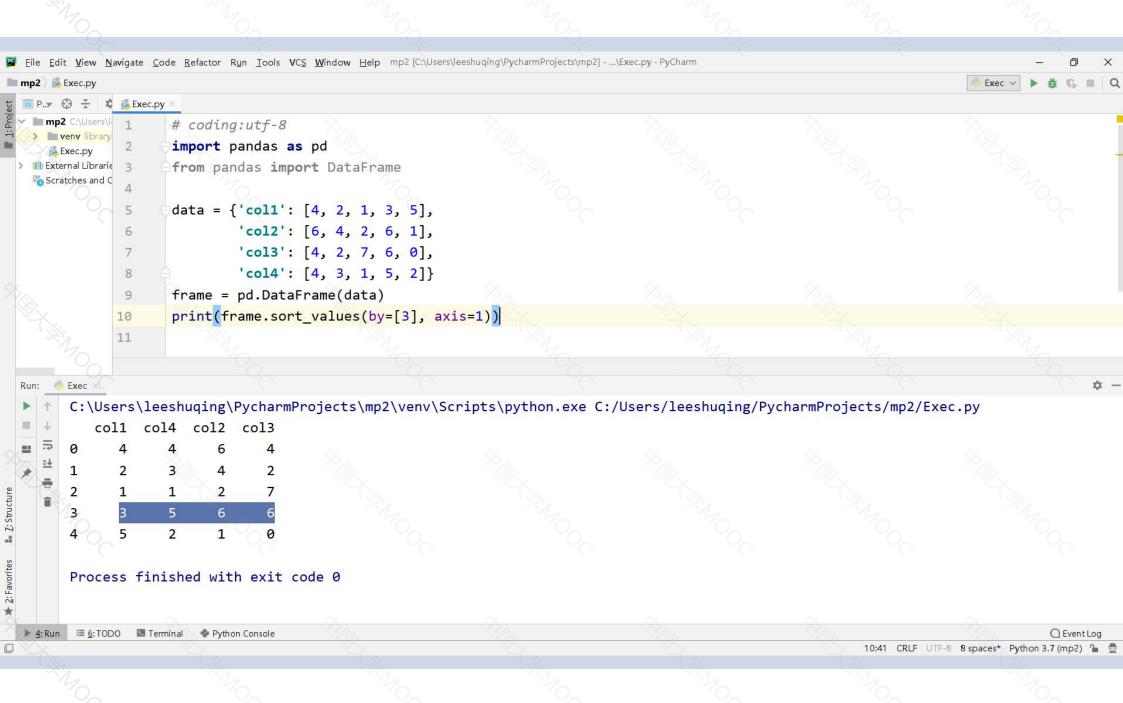
```
🖼 Eile Edit View Navigate Code Refactor Run Iools VCS Window Help mp2 [C:\Users\leeshuqing\PycharmProjects\mp2] - ...\Exec.py - PyCharm
                                                                                                                                       Exec
    P... 🕀 😤 🛱 🖺 Exec.py
                      data = { 'ID': [ '000001', '0000002', '0000003', '0000004', '0000005', '0000006', '0000007'],
   mp2 C:\Users\l 5
   > wenv library 6
                                'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
     Exec.py
                                'gender': [True, False, True, False, True, False, True],
   III External Librarie
   Scratches and C 8
                                'age': [16, 20, 18, 18, 17, 18, 16],
                                'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
               10
                      frame = pd.DataFrame(data)
               11
                      frame = frame.sort values(by=['height'], ascending=False)
               12
                      print(frame)
               13
                      frame = frame.reset_index(drop=True)
               14
                      print(frame)
               15
        Exec ×
                ID name gender age height
                      黎明
            000001
                              True
                                      16
                                             1.88
            000004
                      É NO
                             False
                                             1.86
                                      18
                     张富平
                               True
            000003
                                             1.81
                                       18
           000002
                     赵怡春
                              False
                                             1.78
                                       20
                      李南
            000007
                              True
                                      16
                                             1.76
           000006
                      姚华
                             False
                                      18
                                             1.75
                     牛玉德
            000005
                               True
                                       17
                                              1.74
         Process finished with exit code 0
  ▶ 4: Run 	≡ 6: TODO 	■ Terminal 	₱ Python Console
                                                                                                                                                C Event Log
                                                                                                                      14:37 CRLF UTF-8 8 spaces* Python 3.7 (mp2) 🦫 💆
```





```
🖺 File Edit View Navigate Code Refactor Run Jools VCS Window Help mp2 [C:\Users\leeshuqing\PycharmProjects\mp2] - ...\Exec.py - PyCharm
mp2 Exec.py
                                                                                                                                   Exec V
                      Trom panuas import pacarrame
   mp2 C:\Users\l
   > env library 4
     Exec.py
                      data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
  III External Librarie
                               'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
   Scratches and C 6
                               'gender': [True, False, True, False, True, False, True],
                               'age': [16, 20, 18, 18, 17, 18, 16],
               8
               9
                               'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
              10
                     frame = pd.DataFrame(data)
              11
                      print(frame[['name', 'height', 'ID', 'age', 'gender']])
              12
              13
      Exec
          name height
                              ID age
                                       gender
            黎明
                     1.88
                           000001
                                     16
                                            True
           赵怡春
                     1.78 000002
                                      20
                                            False
           张富平
                     1.81 000003
                                      18
                                            True
             白丽
                     1.86 000004
                                     18
                                           False
           牛玉德
                    1.74 000005
                                      17
                                             True
            姚华
                     1.75 000006
                                           False
            李南
                     1.76 000007
                                     16
                                            True
        Process finished with exit code 0
         I 6: TODO
                 ■ Terminal
                         Python Console
                                                                                                                                            C Event Log
                                                                                                                   12:56 CRLF UTF-8 8 spaces* Python 3.7 (mp2) 🦫 💆
```





一次不学多,下次再学