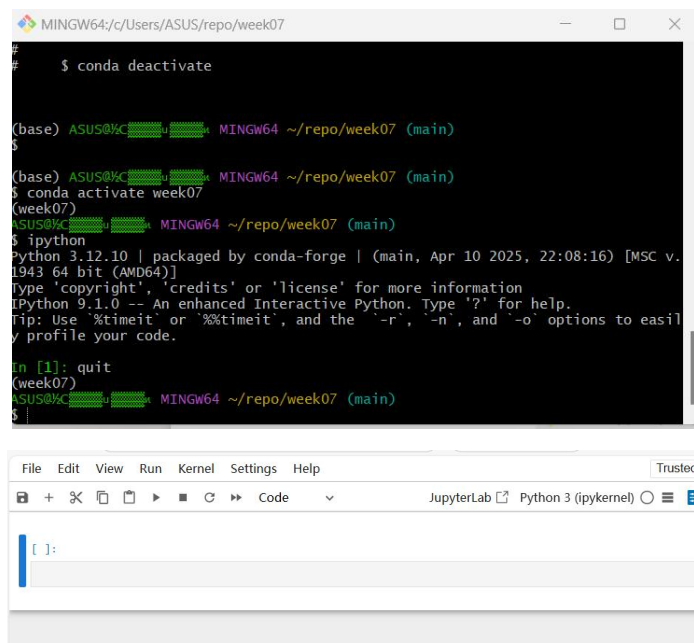


1. 复制激活环境。



The top screenshot shows a terminal window with the following commands and output:

```
MINGW64~/c/Users/ASUS/repo/week07
$ conda deactivate

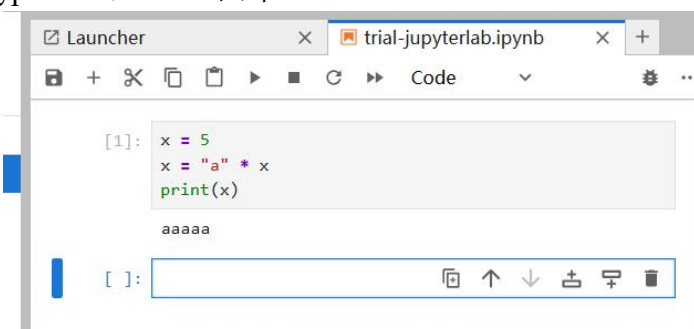
(base) ASUS@MINGW64 ~/repo/week07 (main)
$ conda activate week07
(week07)
ASUS@MINGW64 ~/repo/week07 (main)
$ ipython
Python 3.12.10 | packaged by conda-forge | (main, Apr 10 2025, 22:08:16) [MSC v.1943 64 bit (AMD64)]
Type 'copyright', 'credits' or 'license' for more information
Python 9.1.0 -- An enhanced Interactive Python. Type '?' for help.
Tip: Use '%timeit' or '%timeit', and the '-r', '-n', and '-o' options to easily profile your code.

In [1]: quit
(week07)
ASUS@MINGW64 ~/repo/week07 (main)
$
```

The bottom screenshot shows the JupyterLab interface with a single code cell containing:

```
[ ]:
```

2. 使用 jupyter lab, shift+回车:



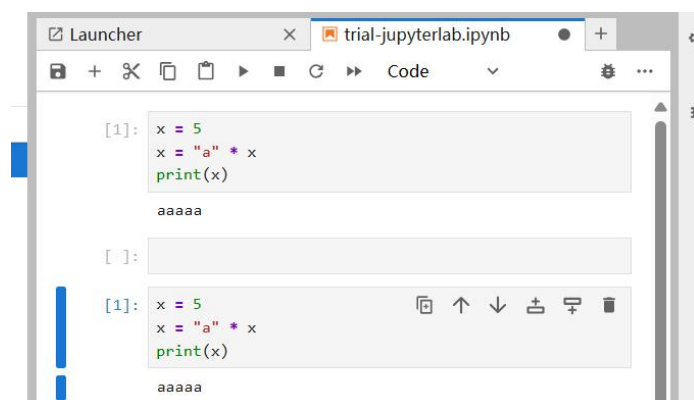
The screenshot shows the JupyterLab interface with a code cell containing the following Python code:

```
[1]: x = 5
      x = "a" * x
      print(x)
```

The output of the cell is:

```
aaaaa
```

按 ESC 回到命令键，命令模式不要随便按键，在单元格 (Cell) 的命令模式下，按 j 选择下一个，按 k 选择上一个，按 a 在上方添加，按 b 在下方添加，按 dd 删除，按住 Shift 多选，按 x 剪切，按 c 复制，按 v 粘贴，按 Shift+M 合并，按 z 撤销，按 Shift+Z 重做，按 Shift+L 显示/隐藏代码行号，Ctrl+Shift+切分单元格。



The screenshot shows the JupyterLab interface with two code cells. The top cell contains the same Python code as in the previous screenshot:

```
[1]: x = 5
      x = "a" * x
      print(x)
```

The output of the top cell is:

```
aaaaa
```

The bottom cell is a new, empty code cell:

```
[ ]:
```

```
[2]: a = [4, 2, 9]

[3]: a

[3]: [4, 2, 9]

[4]: a.pop()

[4]: 9

[5]: a

[5]: [4, 2]

[ ]:
```

可以写表达式，就能输出结果。序号显示*，表示还在运行中。可以用 ii 中断。

```
[*]: import time

while True:
    print('hello')
    time.sleep(3)

hello
hello
hello
hello
hello
hello
. . .
```

```
x = 5
x = "a" * x
print(x)
```

```
x = 5
x = "a" * x
print(x)
```

一级标题

二级标题

三级标题

这是一段普通的文本内容。你可以使用 **加粗** 来强调重要的文字，或者使用 *斜体* 来突出一些表述。

[这是一个超链接](#)，点击它可以跳转到指定的网页。

- 这是一个无序列表项 1
- 这是一个无序列表项 2
 - 这是无序列表的子列表项 1
 - 这是无序列表的子列表项 2

3. 配置环境，token 用来识别用户信息。

```
MINGW64/c/Users/ASUS
Roaming/Microsoft/Windows/Recent/
drwxr-xr-x 1 ASUS 197121 0 Oct 28 2023 'Saved Games'/
drwxr-xr-x 1 ASUS 197121 0 Feb 13 10:13 Searches/
lrwxrwxrwx 1 ASUS 197121 54 Oct 28 2023 SendTo -> /c/Users/ASUS/AppData/
Roaming/Microsoft/Windows/SendTo/
lrwxrwxrwx 1 ASUS 197121 57 Oct 28 2023 Templates -> /c/Users/ASUS/AppData/
Roaming/Microsoft/Windows/Templates/
drwxr-xr-x 1 ASUS 197121 0 Mar 23 2024 Videos/
drwxr-xr-x 1 ASUS 197121 0 Apr 25 15:50 'WPS Cloud Files'/
drwxr-xr-x 1 ASUS 197121 0 Dec 5 10:30 WPSDrive/
drwxr-xr-x 1 ASUS 197121 0 Mar 27 2024 ado/
drwxr-xr-x 1 ASUS 197121 0 Mar 19 17:02 anaconda3/
drwxr-xr-x 1 ASUS 197121 0 Jul 12 2024 anse1/
-rw-r--r-- 1 ASUS 197121 12125184 Oct 28 2023 ntuser.dat.LOG1
-rw-r--r-- 1 ASUS 197121 3932160 Oct 28 2023 ntuser.dat.LOG2
-rw-r--r-- 1 ASUS 197121 20 Oct 28 2023 ntuser.ini
drwxr-xr-x 1 ASUS 197121 0 Apr 24 15:34 repo/
-rw-r--r-- 1 ASUS 197121 65 Apr 25 16:14 tk.csv
lrwxrwxrwx 1 ASUS 197121 58 Oct 28 2023 「开始」菜单 -> '/c/Users/ASUS/A
ppData/Roaming/Microsoft/Windows/Start Menu'/
drwxr-xr-x 1 ASUS 197121 0 Oct 22 2023 新建文件夹/

(base) ASUS@%C MINGW64 ~
$
```

4. 运用代码从 tushare 获取数据: `import tushare as ts; pro = ts.pro_api(); df = pro.new_share(); df.to_parquet("new_share.parquet")`

5.

| | | | | | | | | | | | |
|--|----------|------|-----------|------------|----------|---------------|-------|-------|--------------|-------|--------|
| "002953.SZ" "002953" "日丰股份" "20190424" "20190509" 4302.0 3872.0 10.52 16.34 1.7 4.526 0.03 | | | | | | | | | | | |
| [7]: d1 = d1.with_columns(ipo_date=pl.col.ipo_date.str.to_date("%Y%m%d"), issue_date=pl.col.issue_date.str.to_date("%Y%m%d")) | | | | | | | | | | | |
| [8]: PerspectiveWidget(d1) | | | | | | | | | | | |
| [8]: | | | | | | | | | | | |
| ts_code | sub_code | name | ipo_date | issue_date | amount | market_amount | price | pe | limit_amount | funds | ballot |
| 603014.SH | 732014 | 威高血净 | 2025/5/7 | - | 4,114.00 | 0.00 | 0.00 | 0.00 | 1.10 | 0.00 | 0.00 |
| 301595.SZ | 301595 | 太力科技 | 2025/5/7 | - | 2,707.00 | 0.00 | 0.00 | 0.00 | 0.65 | 0.00 | 0.00 |
| 688755.SH | 787755 | 汉邦科技 | 2025/5/6 | - | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 |
| 301636.SZ | 301636 | 泽润新能 | 2025/4/27 | - | 1,597.00 | 455.00 | 33.06 | 17.57 | 0.45 | 5.28 | 0.00 |
| 920068.BJ | 920068 | 天工股份 | 2025/4/27 | - | 6,000.00 | 4,200.00 | 3.94 | 14.98 | 255.00 | 2.36 | 0.00 |
| 001400.SZ | 001400 | 江顺科技 | 2025/4/14 | 2025/4/23 | 1,500.00 | 1,500.00 | 37.36 | 15.32 | 1.50 | 5.60 | 0.01 |
| 301560.SZ | 301560 | 众捷汽车 | 2025/4/14 | 2025/4/24 | 3,040.00 | 1,216.00 | 16.50 | 21.30 | 0.70 | 5.02 | 0.02 |
| 603202.SH | 732202 | 天有为 | 2025/4/13 | 2025/4/23 | 4,000.00 | 2,611.00 | 93.50 | 13.50 | 1.25 | 37.40 | 0.03 |
| 301662.SZ | 301662 | 宏工科技 | 2025/4/7 | 2025/4/16 | 2,000.00 | 813.00 | 26.60 | 7.05 | 0.45 | 5.32 | 0.02 |
| 603120.SH | 732120 | 肯特催化 | 2025/4/6 | 2025/4/15 | 2,260.00 | 1,808.00 | 15.00 | 16.76 | 0.90 | 3.39 | 0.03 |
| 001335.SZ | 001335 | 佰凯科技 | 2025/3/30 | 2025/4/14 | 2,343.00 | 1,875.00 | 12.80 | 11.44 | 0.90 | 3.00 | 0.02 |
| 301665.SZ | 301665 | 泰禾股份 | 2025/3/30 | 2025/4/10 | 4,500.00 | 1,485.00 | 10.27 | 13.40 | 0.70 | 4.62 | 0.02 |
| 603210.SH | 732210 | 泰鸿万立 | 2025/3/27 | 2025/4/8 | 8,510.00 | 5,739.00 | 8.60 | 18.60 | 2.70 | 7.32 | 0.04 |
| 603257.SH | 732257 | 中国瑞林 | 2025/3/25 | 2025/4/7 | 3,000.00 | 1,992.00 | 20.52 | 18.17 | 0.95 | 6.16 | 0.03 |
| 301658.SZ | 301658 | 首航新能 | 2025/3/23 | 2025/4/1 | 4,124.00 | 1,617.00 | 11.80 | 15.88 | 0.75 | 4.87 | 0.02 |
| 920029.BJ | 920029 | 开发科技 | 2025/3/17 | 2025/3/27 | 3,849.00 | 2,677.00 | 30.38 | 8.46 | 158.96 | 11.69 | 0.17 |
| 301616.SZ | 301616 | 浙江华业 | 2025/3/16 | 2025/3/26 | 2,000.00 | 2,000.00 | 20.87 | 25.22 | 2.00 | 4.17 | 0.01 |

| | | | | | | | | | | | |
|--|----------|--------|------------|------------|--------|---------------|-------|-------|--------------|-------|--------|
| [9]: d1 = d1.with_columns(ipo_date=pl.col.ipo_date.str.to_date("%Y%m%d"), issue_date=pl.col.issue_date.str.to_date("%Y%m%d")) | | | | | | | | | | | |
| [9]: shape: (2,000, 12) | | | | | | | | | | | |
| ts_code | sub_code | name | ipo_date | issue_date | amount | market_amount | price | pe | limit_amount | funds | ballot |
| str | str | str | date | date | f64 | f64 | f64 | f64 | f64 | f64 | f64 |
| "603014.SH" | "732014" | "威高血净" | 2025-05-08 | null | 4114.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 |
| "301595.SZ" | "301595" | "太力科技" | 2025-05-08 | null | 2707.0 | 0.0 | 0.0 | 0.0 | 0.65 | 0.0 | 0.0 |
| "688755.SH" | "787755" | "汉邦科技" | 2025-05-07 | null | 2200.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| "301636.SZ" | "301636" | "泽润新能" | 2025-04-28 | null | 1597.0 | 455.0 | 33.06 | 17.57 | 0.45 | 5.279 | 0.0 |
| "920068.BJ" | "920068" | "天工股份" | 2025-04-28 | null | 6000.0 | 4200.0 | 3.94 | 14.98 | 255.0 | 2.364 | 0.0 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| "300777.SZ" | "300777" | "中简科技" | 2019-05-16 | 2019-05-16 | 4001.0 | 3601.0 | 6.06 | 22.98 | 1.1 | 2.425 | 0.04 |
| "603267.SH" | "732267" | "德江电子" | 2019-04-20 | 2019-05-15 | 4134.0 | 3731.0 | 30.34 | 16.5 | 1.6 | 8.367 | 0.03 |

| | | | | | | | | | |
|-----------|----------|------|-----------|------------|----------|---------------|-------|-------|----|
| ts_code | sub_code | name | ipo_date | issue_date | amount | market_amount | price | pe | li |
| 603014.SH | 732014 | 威高血净 | 2025/5/7 | - | 4,114.00 | 0.00 | 0.00 | 0.00 | |
| 301595.SZ | 301595 | 太力科技 | 2025/5/7 | - | 2,707.00 | 0.00 | 0.00 | 0.00 | |
| 688755.SH | 787755 | 汉邦科技 | 2025/5/6 | - | 2,200.00 | 0.00 | 0.00 | 0.00 | |
| 301636.SZ | 301636 | 泽润新能 | 2025/4/27 | - | 1,597.00 | 455.00 | 33.06 | 17.57 | |
| 920068.BJ | 920068 | 天工股份 | 2025/4/27 | - | 6,000.00 | 4,200.00 | 3.94 | 14.98 | |
| 001400.SZ | 001400 | 江顺科技 | 2025/4/14 | 2025/4/23 | 1,500.00 | 1,500.00 | 37.36 | 15.32 | |
| 301560.SZ | 301560 | 众捷汽车 | 2025/4/14 | 2025/4/24 | 3,040.00 | 1,216.00 | 16.50 | 21.30 | |

| | | | | | | | | | |
|-----------|----------|------|-----------|------------|----------|---------------|-------|-------|----|
| ts_code | sub_code | name | ipo_date | issue_date | amount | market_amount | price | pe | li |
| 603014.SH | 732014 | 威高血净 | 2025/5/7 | - | 4,114.00 | 0.00 | 0.00 | 0.00 | |
| 301595.SZ | 301595 | 太力科技 | 2025/5/7 | - | 2,707.00 | 0.00 | 0.00 | 0.00 | |
| 688755.SH | 787755 | 汉邦科技 | 2025/5/6 | - | 2,200.00 | 0.00 | 0.00 | 0.00 | |
| 301636.SZ | 301636 | 泽润新能 | 2025/4/27 | - | 1,597.00 | 455.00 | 33.06 | 17.57 | |
| 920068.BJ | 920068 | 天工股份 | 2025/4/27 | - | 6,000.00 | 4,200.00 | 3.94 | 14.98 | |
| 001400.SZ | 001400 | 江顺科技 | 2025/4/14 | 2025/4/23 | 1,500.00 | 1,500.00 | 37.36 | 15.32 | |
| 301560.SZ | 301560 | 众捷汽车 | 2025/4/14 | 2025/4/24 | 3,040.00 | 1,216.00 | 16.50 | 21.30 | |
| 603202.SH | 732202 | 天有为 | 2025/4/13 | 2025/4/23 | 4,000.00 | 2,611.00 | 93.50 | 13.50 | |

| | ts_code | symbol | name | area | industry | fullname | enname | cnsPELL | market | exchange | curr_type | list_status | list_ |
|---------|---------|--------|-------|-------|----------|----------|--------|---------|--------|----------|-----------|-------------|-------|
| | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit |
| - TOTAL | 5,415 | 5,415 | 5,415 | 5,415 | 5,415 | 5,415 | 5,415 | 5,415 | 5,415 | 5,415 | 5,415 | 5,415 | 5 |
| 主板 | 3,183 | 3,183 | 3,183 | 3,183 | 3,183 | 3,183 | 3,183 | 3,183 | 3,183 | 3,183 | 3,183 | 3,183 | 3 |
| 创业板 | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 1,381 | 1 |
| 北交所 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | |
| 科创板 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | |

[9]:

| | ts_code | industry | industry2 |
|---------|---------|----------|-----------|
| | Edit | Edit | Edit |
| - TOTAL | 5,415 | 电气设备 | 111 |
| 主板 | 3,183 | 电气设备 | 110 |
| 创业板 | 1,381 | 软件服务 | 77 |
| 北交所 | 265 | 汽车配件 | 51 |
| 科创板 | 586 | 半导体 | 33 |

| | ts_code | industry | industry2 |
|---------|---------|----------|-----------|
| | Edit | Edit | Edit |
| - TOTAL | 5,415 | 电气设备 | 111 |
| - 主板 | 3,183 | 电气设备 | 110 |
| SSE | 1,696 | 汽车配件 | 107 |
| SZSE | 1,487 | 元器件 | 107 |
| - 创业板 | 1,381 | 软件服务 | 77 |
| SZSE | 1,381 | 软件服务 | 77 |
| - 北交所 | 265 | 汽车配件 | 51 |
| BSE | 265 | 汽车配件 | 51 |
| - 科创板 | 586 | 半导体 | 33 |
| SSE | 586 | 半导体 | 33 |

Where 表示过滤:

| | ts_code |
|---------|---------|
| | Edit |
| - TOTAL | 1,254 |
| - SZSE | 515 |
| 主板 | 515 |
| - SSE | 739 |
| 主板 | 739 |

[7]:

PerspectiveWidget(d1)

[7]:

| ts_code | sub_code | name | ipo_date | issue_date | amount | market_amount | market_ratio | price | pe | limit_amount | fund |
|-----------|----------|------|-----------|------------|--------|---------------|--------------|-------|-------|--------------|------|
| Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit | Edit |
| 920068.BJ | 920068 | 大工股份 | 2025/4/27 | - | 6,000 | 4,200 | 70.00% | 3.94 | 14.98 | 255.00 | 2.3 |
| 001400.SZ | 001400 | 江顺科技 | 2025/4/14 | 2025/4/23 | 1,500 | 1,500 | 100.00% | 37.36 | 15.32 | 1.50 | 5.6 |
| 301560.SZ | 301560 | 众捷汽车 | 2025/4/14 | 2025/4/24 | 3,040 | 1,216 | 40.00% | 16.50 | 21.30 | 0.70 | 5.0 |
| 603202.SH | 732202 | 天有为 | 2025/4/13 | 2025/4/23 | 4,000 | 2,611 | 65.28% | 93.50 | 13.50 | 1.25 | 37.4 |
| 301662.SZ | 301662 | 宏工科技 | 2025/4/7 | 2025/4/16 | 2,000 | 813 | 40.65% | 26.60 | 7.05 | 0.45 | 5.3 |
| 603120.SH | 732120 | 肯特催化 | 2025/4/6 | 2025/4/15 | 2,260 | 1,808 | 80.00% | 15.00 | 16.76 | 0.90 | 3.3 |
| 001335.SZ | 001335 | 信凯科技 | 2025/3/30 | 2025/4/14 | 2,343 | 1,875 | 80.03% | 12.80 | 11.44 | 0.90 | 3.0 |
| 301665.SZ | 301665 | 泰禾股份 | 2025/3/30 | 2025/4/10 | 4,500 | 1,485 | 33.00% | 10.27 | 13.40 | 0.70 | 4.6 |
| 603210.SH | 732210 | 泰鸿万立 | 2025/3/27 | 2025/4/8 | 8,510 | 5,739 | 67.44% | 8.60 | 18.60 | 2.70 | 7.3 |
| 603257.SH | 732257 | 中国瑞林 | 2025/3/25 | 2025/4/7 | 3,000 | 1,992 | 66.40% | 20.52 | 18.17 | 0.95 | 6.1 |
| 301658.SZ | 301658 | 首航新能 | 2025/3/23 | 2025/4/1 | 4,124 | 1,617 | 39.21% | 11.80 | 15.88 | 0.75 | 4.8 |
| 920029.BJ | 920029 | 开发科技 | 2025/3/17 | 2025/3/27 | 3,849 | 2,677 | 69.55% | 30.38 | 8.46 | 158.96 | 11.6 |
| 301616.SZ | 301616 | 浙江华业 | 2025/3/16 | 2025/3/26 | 2,000 | 2,000 | 100.00% | 20.87 | 25.22 | 2.00 | 4.1 |
| 688757.SH | 787757 | 胜科纳米 | 2025/3/13 | 2025/3/24 | 4,033 | 1,036 | 25.69% | 9.08 | 42.64 | 0.65 | 3.6 |
| 301535.SZ | 301535 | 浙江华远 | 2025/3/13 | 2025/3/26 | 6,379 | 2,488 | 39.00% | 4.92 | 25.91 | 1.20 | 3.1 |
| 301629.SZ | 301629 | 砂电股份 | 2025/3/10 | 2025/3/23 | 1,043 | 1,043 | 100.00% | 52.28 | 26.23 | 1.00 | 5.4 |
| 001382.SZ | 001382 | 新亚电缆 | 2025/3/10 | 2025/3/20 | 6,200 | 4,340 | 70.00% | 7.40 | 18.71 | 1.85 | 4.5 |


```
[12]: config = {'version': '3.6.0', 'plugin': 'Datagrid', 'plugin_config': {'columns': {}, 'edit_mode': 'READ_ONLY', 'scroll_lock': false}, 'columns_config': {'market_ratio': {'number_fg_mode': 'disabled', 'number_bg_mode': 'gradient', 'bg_gradient': 1.0, 'number_format': {'style': 'percent', 'minimumFractionDigits': 2.0, 'maximumFractionDigits': 2.0}}, 'market_amount': {'number_format': {'minimumFractionDigits': 0.0, 'maximumFractionDigits': 2.0}}, 'sub_code': {'format': 'bold', 'color': '#27a2a2a'}, 'amount': {'number_format': {'minimumFractionDigits': 0.0, 'maximumFractionDigits': 2.0}}, 'settings': true, 'theme': 'Pro Light', 'title': null, 'group_by': [], 'split_by': [], 'sort': [], 'filter': [], 'expressions': {'market_ratio': 'market_amount / 'amount''}}, 'columns': {'ts_code', 'sub_code', 'name', 'ipo_date', 'issue_date', 'amount', 'market_amount', 'market_ratio', 'price', 'pe', 'limit_amount', 'funds', 'ballot'}, 'aggregates': {}}
```

```
[13]: print(config)
```

```
[14]: from pathlib import Path
```

```
[17]: file_path = Path(r"C:\Users\ASUS\AppData\Local\Temp\MicrosoftEdgeDownloads\fb26e699-92e5-4c70-893a-7d5cd5030532")
if file_path.exists():
    try:
        content = file_path.read_text(encoding="utf8")
        print(content)
    except PermissionError:
        print("没有读取该文件的权限。")
else:
    print("文件不存在。")
```

没有读取该文件的权限。

