

# 【附录】Python安装与配置

## 1.0 Python安装

- 1) 打开Python官方网址
- 2) 下载安装包
- 3) 安装

## 2.0 虚拟环境与Jupyter Notebook安装

- 1) 创建虚拟环境
- 2) 虚拟环境中安装Jupyter Notebook

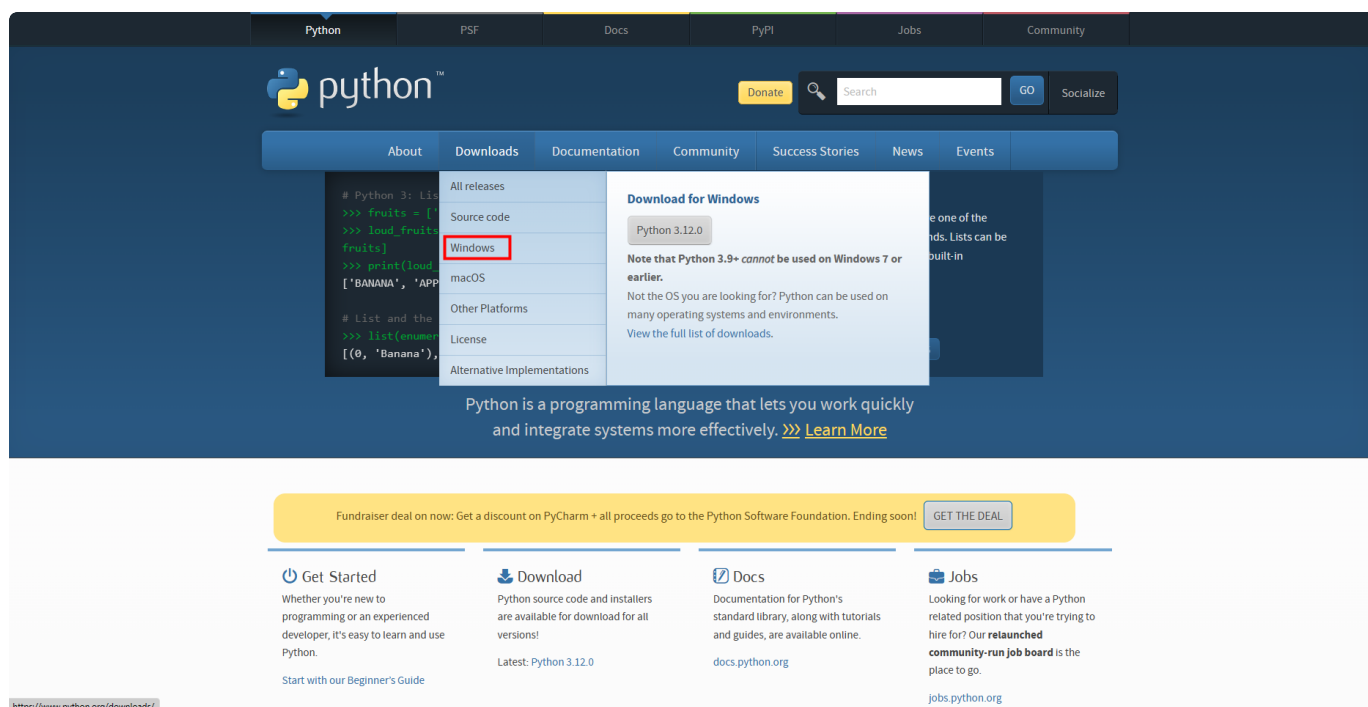
## 3.0 使用Jupyter Notebook

## 1.0 Python安装

### 1) 打开Python官方网址

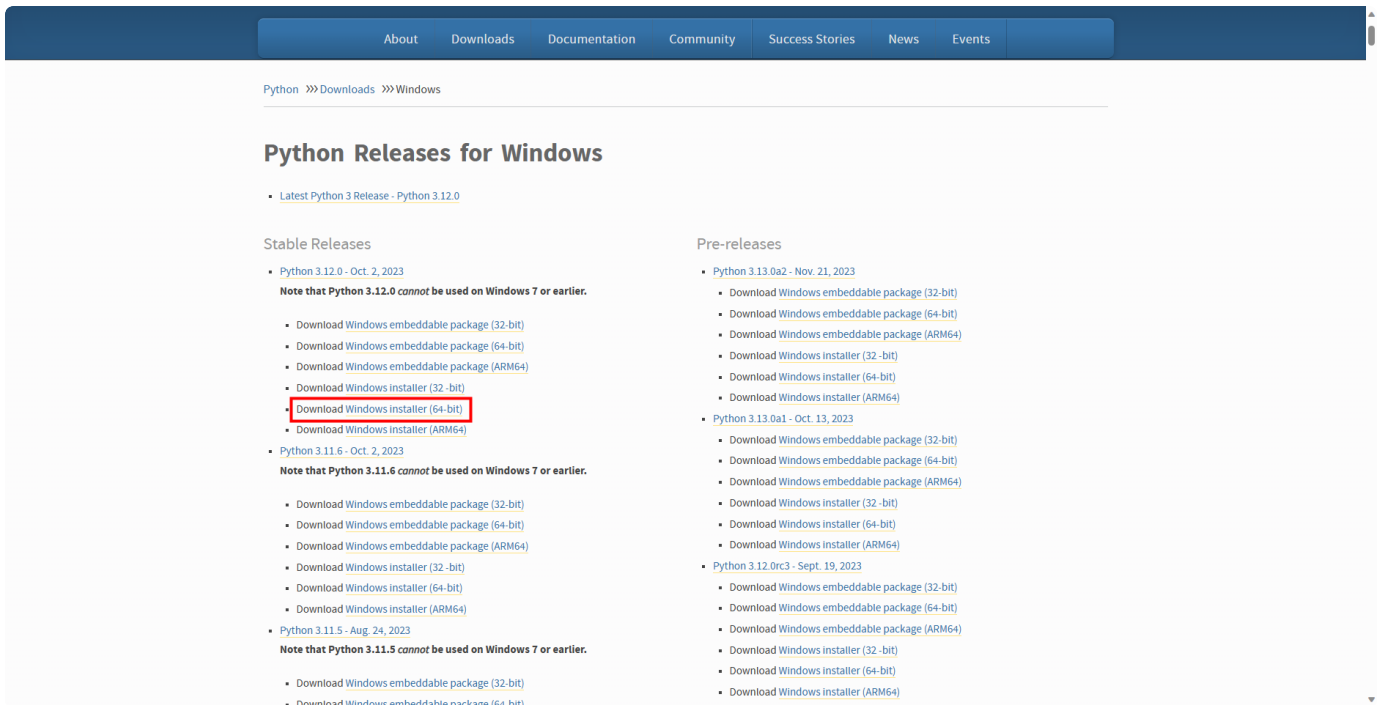
地址：[Welcome to Python.org](https://www.python.org)

点击Download，选择对应系统



## 2) 下载安装包

选择适配的安装包，一般选 [Windows installer \(64-bit\)](#)

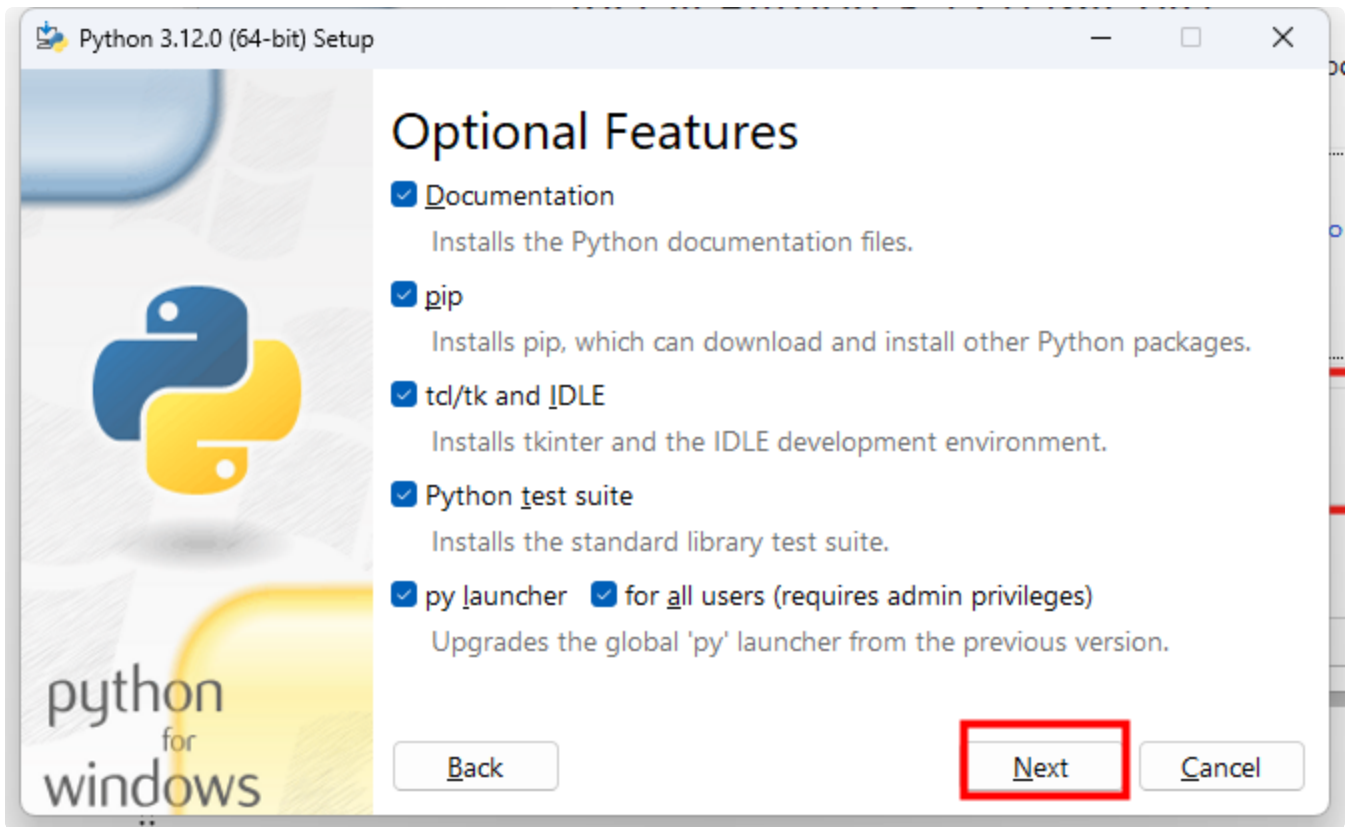


## 3) 安装

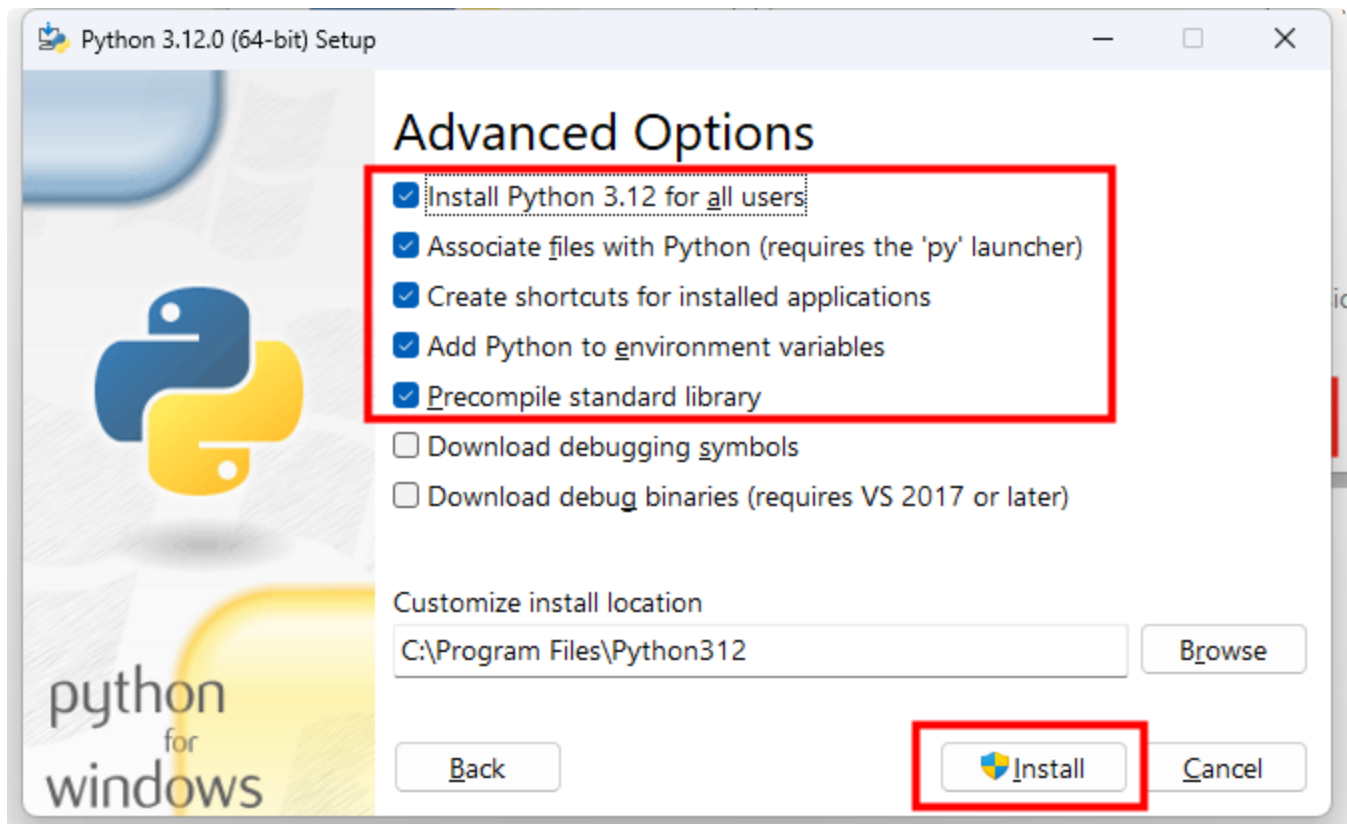
点击打开下载文件，勾选Add python.exe to Path后，选择Customize installation



继续next



勾选以下项，使用默认路径，点击Install



安装成功后，如果出现以下界面，可点击Disable path length limit，取消路径长度限制



## Setup was successful

New to Python? Start with the [online tutorial](#) and [documentation](#). At your terminal, type "py" to launch Python, or search for Python in your Start menu.

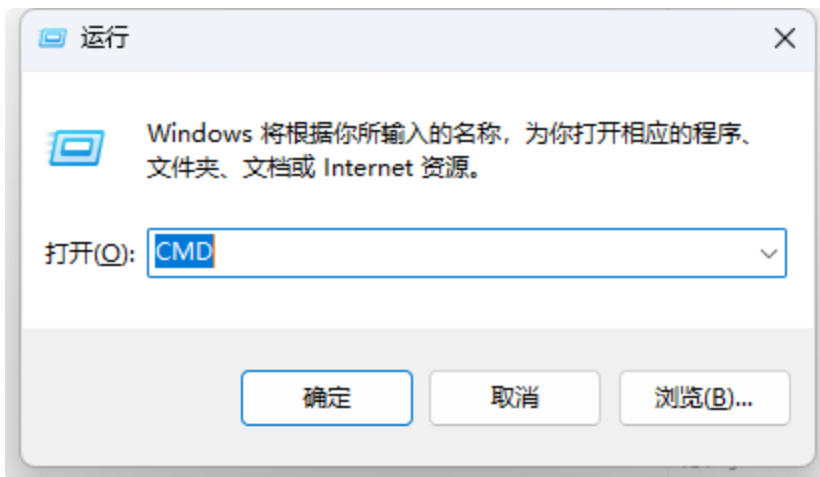
See [what's new](#) in this release, or find more info about [using Python on Windows](#).



### Disable path length limit

Changes your machine configuration to allow programs, including Python, to bypass the 260 character "MAX\_PATH" limitation.

最后按开始键+R，打开运行菜单命令，输入CMD



命令行输入python，出现以下结果则安装成功。

```
C:\Windows\system32\CMD.exe
Microsoft Windows [版本 10.0.22621.2715]
(c) Microsoft Corporation。保留所有权利。

Python 3.11.3 (tags/v3.11.3:f3909b8, Apr  4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> |
```

## 2.0 虚拟环境与Jupyter Notebook安装

### 1) 创建虚拟环境

输入 `python -m venv D:\pyvenv` 按回车，生成虚拟环境

```
C:\Windows\system32\CMD.exe
Microsoft Windows [版本 10.0.22621.2715]
(c) Microsoft Corporation。保留所有权利。

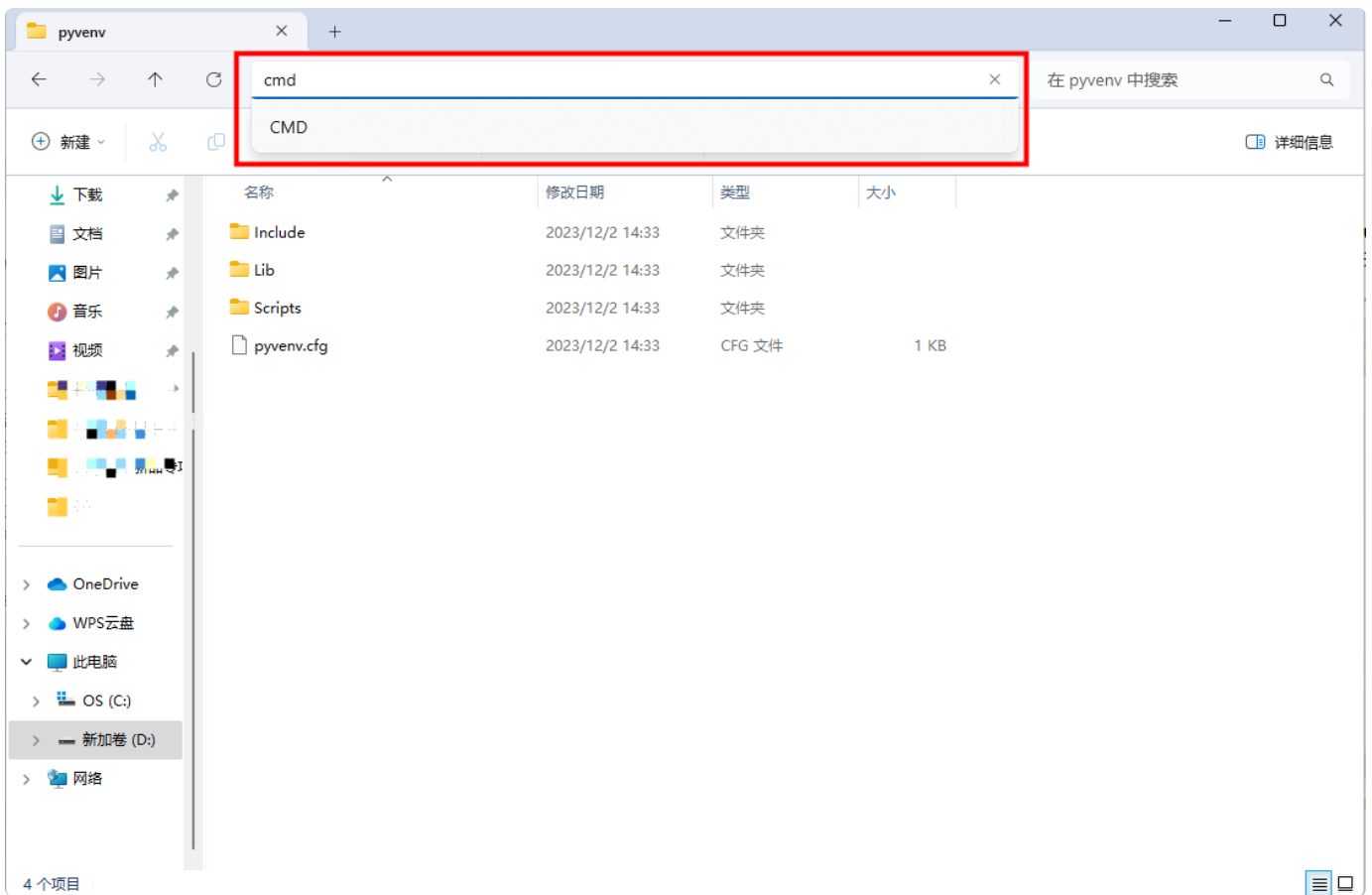
C:\Users\user>python -m venv D:\pyvenv

C:\Users\user>
```

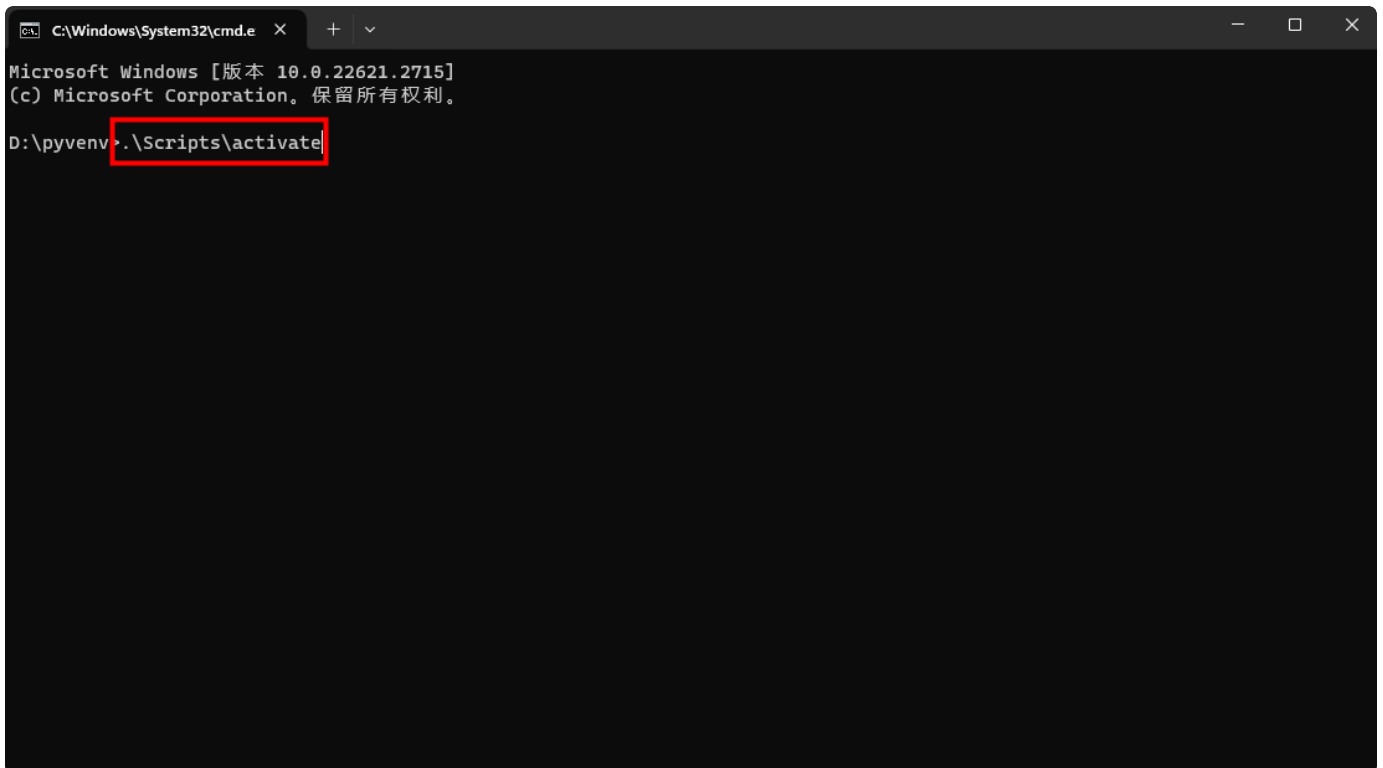
名称	修改日期	类型	大小
Desktop	2023/7/5 11:04	文件夹	
Download	2023/10/31 9:15	文件夹	
Documents	2023/12/2 11:09	文件夹	
poppler-23.07.0	2023/7/11 14:37	文件夹	
python_env	2023/9/19 17:27	文件夹	
pyvenv	2023/12/2 14:33	文件夹	
Pictures	2023/9/19 17:38	文件夹	
应用	2023/9/18 14:04	文件夹	
rtrDD59.tmp	2023/6/25 18:20	TMP 文件	1,048,576...

## 2) 虚拟环境中安装Jupyter Notebook

进入pyvenv文件夹，输入cmd，进入命令行界面



输入.\Scripts\activate进入虚拟环境



```
C:\Windows\System32\cmd.e X + v
(pyvenv) D:\pyvenv>
```

在虚拟环境下，输入pip install ipykernel，回车安装

```
C:\Windows\System32\cmd.e X + v
(pyvenv) D:\pyvenv>pip install ipykernel
Collecting ipykernel
  Downloading ipykernel-6.27.1-py3-none-any.whl (114 kB)
    114.6/114.6 kB 2.2 MB/s eta 0:00:00
Collecting comm>=0.1.1
  Downloading comm-0.2.0-py3-none-any.whl (7.0 kB)
Collecting debugpy>=1.6.5
  Downloading debugpy-1.8.0-cp311-cp311-win_amd64.whl (4.9 MB)
    4.9/4.9 MB 7.7 MB/s eta 0:00:00
Collecting ipython>=7.23.1
  Downloading ipython-8.18.1-py3-none-any.whl (808 kB)
    808.2/808.2 kB 5.7 MB/s eta 0:00:00
Collecting jupyter-client>=6.1.12
  Downloading jupyter_client-8.6.0-py3-none-any.whl (105 kB)
    105.9/105.9 kB 382.5 kB/s eta 0:00:00
Collecting jupyter-core!=5.0.*,>=4.12
  Downloading jupyter_core-5.5.0-py3-none-any.whl (28 kB)
Collecting matplotlib-inline>=0.1
  Using cached matplotlib_inline-0.1.6-py3-none-any.whl (9.4 kB)
Collecting nest-asyncio
  Downloading nest_asyncio-1.5.8-py3-none-any.whl (5.3 kB)
Collecting packaging
  Downloading packaging-23.2-py3-none-any.whl (53 kB)
    53.0/53.0 kB ? eta 0:00:00
Collecting psutil
  Downloading psutil-5.9.6-cp37-abi3-win_amd64.whl (252 kB)
    252.3/252.3 kB 5.2 MB/s eta 0:00:00
Collecting pyzmq>=20
  Downloading pyzmq-25.1.1-cp311-cp311-win_amd64.whl (1.2 MB)
```

在虚拟环境下，pip install jupyter notebook，回车安装



```
C:\Windows\System32\cmd.e X + v
(pyvenv) D:\pyvenv>pip install jupyter notebook
Collecting jupyter
  Using cached jupyter-1.0.0-py2.py3-none-any.whl (2.7 kB)
Collecting notebook
  Downloading notebook-7.0.6-py3-none-any.whl (4.0 MB)
    4.0/4.0 MB 8.0 MB/s eta 0:00:00
Collecting qtconsole
  Downloading qtconsole-5.5.1-py3-none-any.whl (123 kB)
    123.4/123.4 kB 7.1 MB/s eta 0:00:00
Collecting jupyter-console
  Using cached jupyter_console-6.6.3-py3-none-any.whl (24 kB)
Collecting nbconvert
  Downloading nbconvert-7.11.0-py3-none-any.whl (256 kB)
    256.6/256.6 kB 5.2 MB/s eta 0:00:00
Requirement already satisfied: ipykernel in d:\pyvenv\lib\site-packages (from jupyter) (6.27.1)
Collecting ipywidgets
  Downloading ipywidgets-8.1.1-py3-none-any.whl (139 kB)
    139.4/139.4 kB 4.2 MB/s eta 0:00:00
Collecting jupyter-server<3,>=2.4.0
  Downloading jupyter_server-2.11.1-py3-none-any.whl (380 kB)
    380.0/380.0 kB 4.7 MB/s eta 0:00:00
Collecting jupyterlab-server<3,>=2.22.1
  Downloading jupyterlab_server-2.25.2-py3-none-any.whl (58 kB)
    58.9/58.9 kB ? eta 0:00:00
Collecting jupyterlab<5,>=4.0.2
  Downloading jupyterlab-4.0.9-py3-none-any.whl (9.2 MB)
    9.2/9.2 MB 6.7 MB/s eta 0:00:00
Collecting notebook-shim<0.3,>=0.2
  Using cached notebook_shim-0.2.3-py3-none-any.whl (13 kB)
```

继续输入python -m ipykernel install --user --name=pyvenv, 回车

```
C:\Windows\System32\cmd.e X + v
-client, webcolors, urllib3, uri-template, tinycss2, soupsieve, sniffio, send2trash, rpds-py, rfc3986-validator, rfc3339
-validator, qtpy, pyyaml, pywinpty, python-json-logger, pycparser, prometheus-client, pandocfilters, overrides, mistune,
markupsafe, jupyterlab-widgets, jupyterlab-pygments, jsonpointer, idna, fqdn, defusedxml, charset-normalizer, certifi,
bleach, babel, attrs, async-lru, terminado, requests, referencing, jinja2, cffi, beautifulsoup4, arrow, anyio, jupyter-s
erver-terminals, jsonschema-specifications, isoduration, argon2-cffi-bindings, jsonschema, ipywidgets, argon2-cffi, qtco
nsole, nbformat, jupyter-console, nbclient, jupyter-events, nbconvert, jupyter-server, notebook-shim, jupyterlab-server,
jupyter-lsp, jupyterlab, notebook, jupyter
Successfully installed anyio-4.1.0 argon2-cffi-23.1.0 argon2-cffi-bindings-21.2.0 arrow-1.3.0 async-lru-2.0.4 attrs-23.1
.0 babel-2.13.1 beautifulsoup4-4.12.2 bleach-6.1.0 certifi-2023.11.17 cffi-1.16.0 charset-normalizer-3.3.2 defusedxml-0.
7.1 fastjsonschema-2.19.0 fqdn-1.5.1 idna-3.6 ipywidgets-8.1.1 isoduration-20.11.0 jinja2-3.1.2 json5-0.9.14 jsonpointer
-2.4 jsonschema-4.20.0 jsonschema-specifications-2023.11.2 jupyter-1.0.0 jupyter-console-6.6.3 jupyter-events-0.9.0 jupy
ter-lsp-2.2.1 jupyter-server-2.11.1 jupyter-server-terminals-0.4.4 jupyterlab-4.0.9 jupyterlab-pygments-0.3.0 jupyterlab
-server-2.25.2 jupyterlab-widgets-3.0.9 markupsafe-2.1.3 mistune-3.0.2 nbclient-0.9.0 nbconvert-7.11.0 nbformat-5.9.2 no
tebook-7.0.6 notebook-shim-0.2.3 overrides-7.4.0 pandocfilters-1.5.0 prometheus-client-0.19.0 pycparser-2.21 python-jso
n-logger-2.0.7 pywinpty-2.0.12 pyyaml-6.0.1 qtconsole-5.5.1 qtpy-2.4.1 referencing-0.31.1 requests-2.31.0 rfc3339-validat
or-0.1.4 rfc3986-validator-0.1.1 rpds-py-0.13.2 send2trash-1.8.2 sniffio-1.3.0 soupsieve-2.5 terminado-0.18.0 tinycss2-1
.2.1 types-python-dateutil-2.8.19.14 uri-template-1.3.0 urllib3-2.1.0 webcolors-1.13 webencodings-0.5.1 websocket-client
-1.6.4 widgetsnbextension-4.0.9

[notice] A new release of pip available: 22.3.1 -> 23.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(pyvenv) D:\pyvenv>python -m ipykernel install --user --name=pyvenv
0.00s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set PYDEV_DISABLE_FILE_VALIDATION=1 to disable this validation.
Installed kernelspec pyvenv in C:\Users\...\AppData\Roaming\jupyter\kernels\pyvenv

(pyvenv) D:\pyvenv>
```

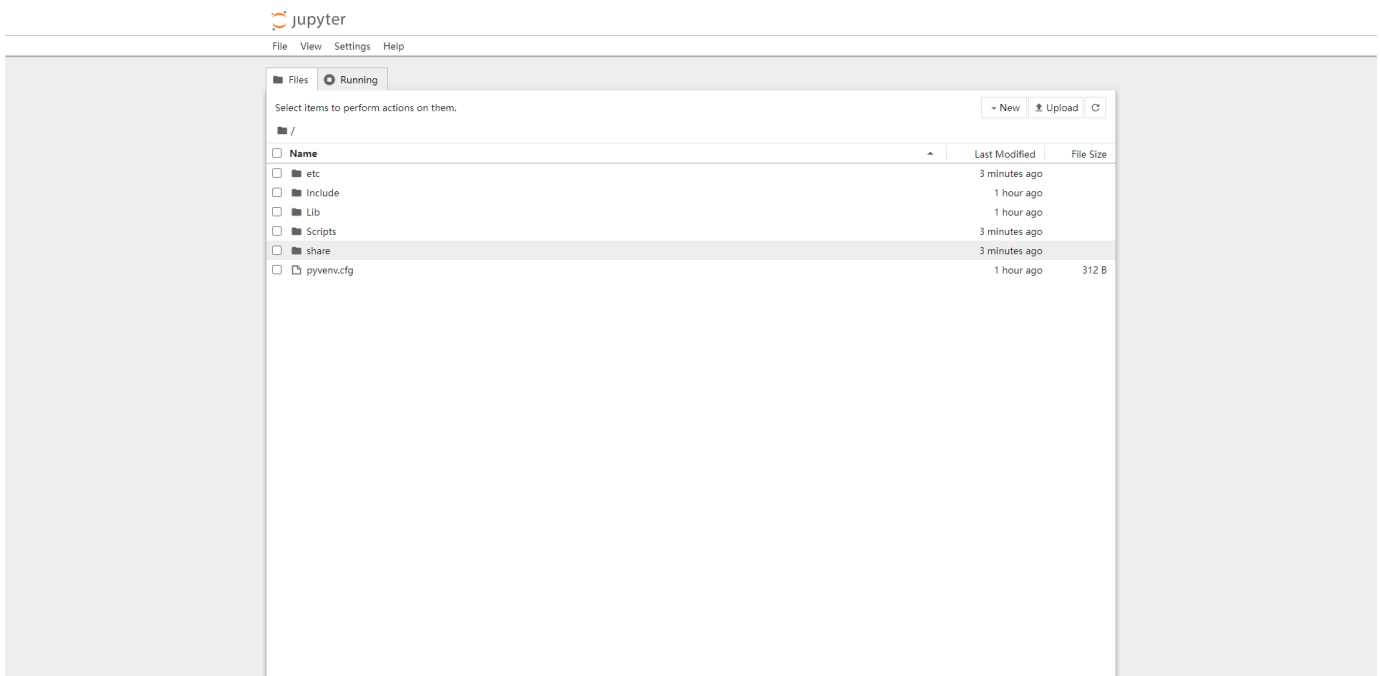
最后输入jupyter notebook则可打开

```
C:\Windows\System32\cmd.e X + v
-client, webcolors, urllib3, uri-template, tinycss2, soupsieve, sniffio, send2trash, rpds-py, rfc3986-validator, rfc3339
-validator, qtpy, pyyaml, pywinpty, python-json-logger, pycparser, prometheus-client, pandocfilters, overrides, mistune,
markupsafe, jupyterlab-widgets, jupyterlab-pygments, jsonpointer, idna, fqdn, defusedxml, charset-normalizer, certifi,
bleach, babel, attrs, async-lru, terminado, requests, referencing, jinja2, cffi, beautifulsoup4, arrow, anyio, jupyter-s
erver-terminals, jsonschema-specifications, isoduration, argon2-cffi-bindings, jsonschema, ipywidgets, argon2-cffi, qtco
nsole, nbformat, jupyter-console, nbclient, jupyter-events, nbconvert, jupyter-server, notebook-shim, jupyterlab-server,
jupyter-lsp, jupyterlab, notebook, jupyter
Successfully installed anyio-4.1.0 argon2-cffi-23.1.0 argon2-cffi-bindings-21.2.0 arrow-1.3.0 async-lru-2.0.4 attrs-23.1
.0 babel-2.13.1 beautifulsoup4-4.12.2 bleach-6.1.0 certifi-2023.11.17 cffi-1.16.0 charset-normalizer-3.3.2 defusedxml-0.
7.1 fastjsonschema-2.19.0 fqdn-1.5.1 idna-3.6 ipywidgets-8.1.1 isoduration-20.11.0 jinja2-3.1.2 json5-0.9.14 jsonpointer
-2.4 jsonschema-4.20.0 jsonschema-specifications-2023.11.2 jupyter-1.0.0 jupyter-console-6.6.3 jupyter-events-0.9.0 jupy
ter-lsp-2.2.1 jupyter-server-2.11.1 jupyter-server-terminals-0.4.4 jupyterlab-4.0.9 jupyterlab-pygments-0.3.0 jupyterlab
-server-2.25.2 jupyterlab-widgets-3.0.9 markupsafe-2.1.3 mistune-3.0.2 nbclient-0.9.0 nbconvert-7.11.0 nbformat-5.9.2 no
tebook-7.0.6 notebook-shim-0.2.3 overrides-7.4.0 pandocfilters-1.5.0 prometheus-client-0.19.0 pycparser-2.21 python-json
-logger-2.0.7 pywinpty-2.0.12 pyyaml-6.0.1 qtconsole-5.5.1 qtpy-2.4.1 referencing-0.31.1 requests-2.31.0 rfc3339-validat
or-0.1.4 rfc3986-validator-0.1.1 rpds-py-0.13.2 send2trash-1.8.2 sniffio-1.3.0 soupsieve-2.5 terminado-0.18.0 tinycss2-1
.2.1 types-python-dateutil-2.8.19.14 uri-template-1.3.0 urllib3-2.1.0 webcolors-1.13 webencodings-0.5.1 websocket-client
-1.6.4 widgetsnbextension-4.0.9

[notice] A new release of pip available: 22.3.1 -> 23.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(pyvenv) D:\pyvenv>python -m ipykernel install --user --name=pyvenv
0.00s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set PYDEVD_DISABLE_FILE_VALIDATION=1 to disable this validation.
Installed kernelspec pyvenv in C:\Users\YangTeng\AppData\Roaming\jupyter\kernels\pyvenv

(pyvenv) D:\pyvenv>jupyter notebook
```



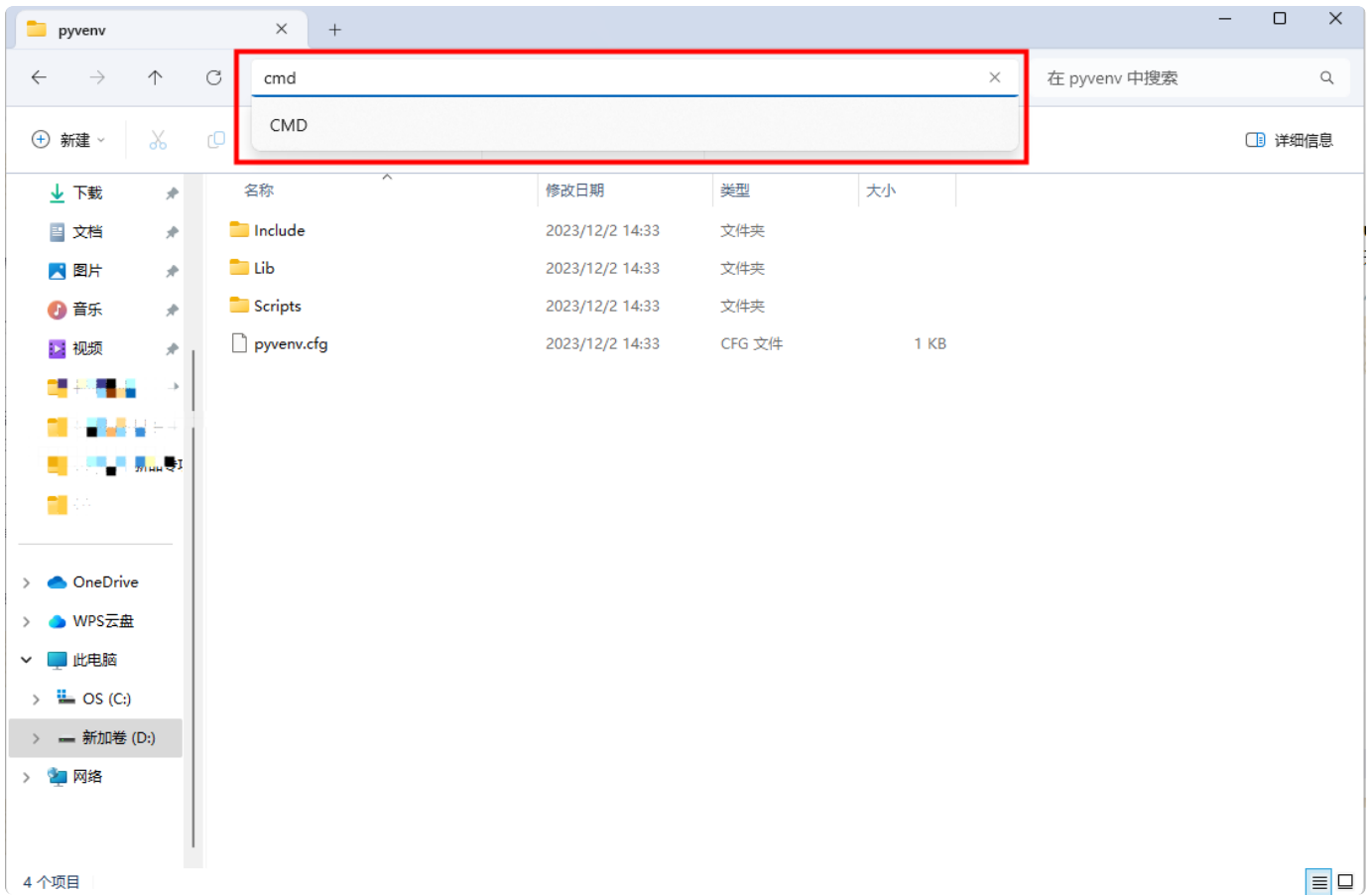
## 3.0 使用Jupyter Notebook

可在D:\pyvenv文件夹路径下新建新品专项文件夹，在新品专项文件夹下存放代码

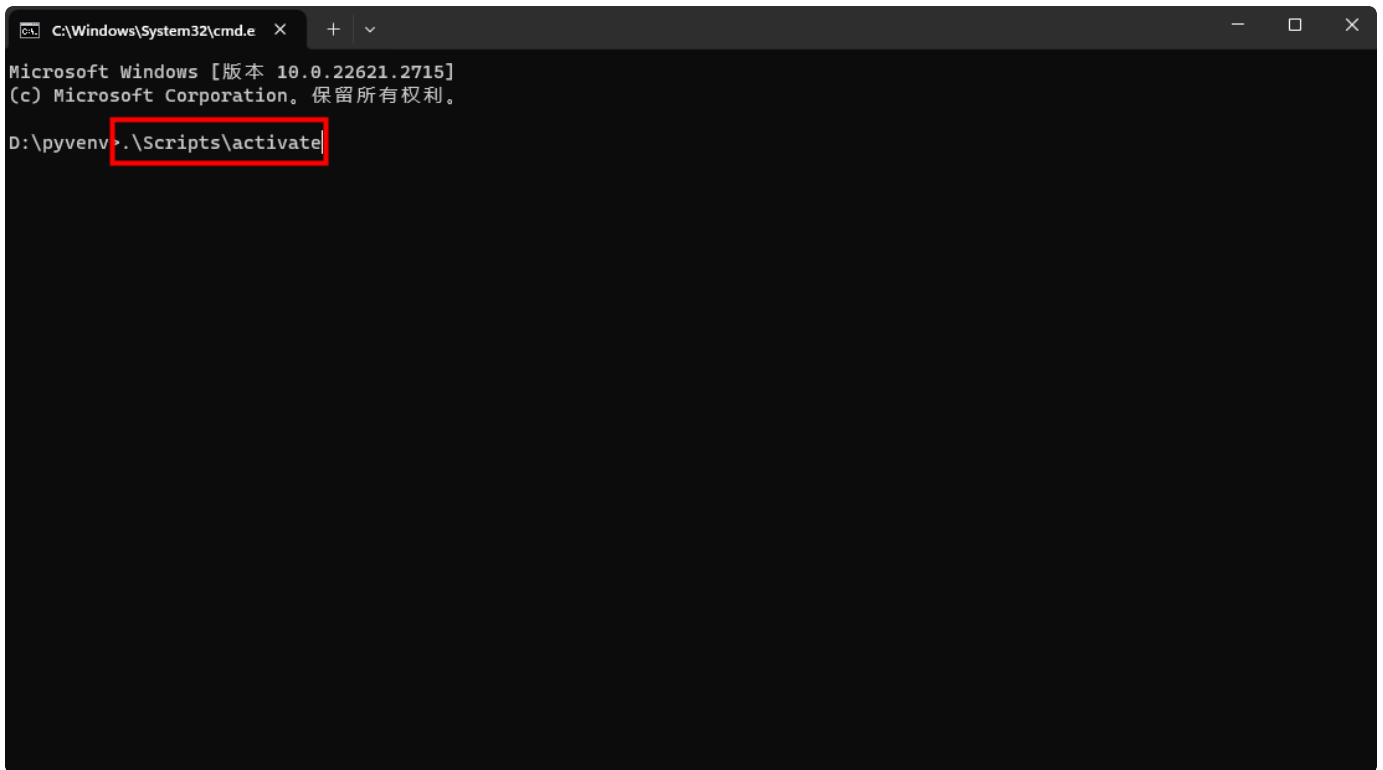
名称	修改日期	类型	大小
etc	2023/12/2 16:14	文件夹	
Include	2023/12/2 14:33	文件夹	
Lib	2023/12/2 14:33	文件夹	
Scripts	2023/12/2 16:15	文件夹	
share	2023/12/2 16:15	文件夹	
US_运营_新品专项	2023/12/2 16:19	文件夹	
pyvenv.cfg	2023/12/2 14:33	CFG 文件	1 KB

名称	修改日期	类型	大小
.ipynb_checkpoints	2023/12/2 16:19	文件夹	
JSON_TO_EXCEL_MUBAN.ipynb	2023/12/1 16:29	IPYNB 文件	13 KB
新品专项_SKU核对_20231130.ipynb	2023/12/2 8:53	IPYNB 文件	82 KB
新品专项_每日_库存更新_20230802.ipynb	2023/12/1 9:58	IPYNB 文件	133 KB
新品专项_每日_设计返图判断_20230802...	2023/8/2 17:30	IPYNB 文件	13 KB
新品专项_每日_新品检查更新_20230906...	2023/9/7 13:41	IPYNB 文件	12 KB
新品专项_每月_第一次检查_20231103.ip...	2023/11/3 10:23	IPYNB 文件	16 KB
新品专项_每月_检查错误率_20230821.ip...	2023/11/3 14:26	IPYNB 文件	26 KB
新品专项_每周_listing上架_组合料匹配(1...	2023/10/24 9:55	IPYNB 文件	45 KB
新品专项_每周_listing上架情况更新_202...	2023/10/7 11:18	IPYNB 文件	38 KB
新品专项_每周_模板完成情况更新_2023...	2023/12/1 17:31	IPYNB 文件	29 KB
新品专项_每周_新品资料_20231026.ipynb	2023/11/23 14:23	IPYNB 文件	18 KB
新品专项_每周_新品资料_20231127.ipynb	2023/11/30 18:01	IPYNB 文件	31 KB
新品专项_每周_在途更新_20230831.ipynb	2023/11/15 9:36	IPYNB 文件	31 KB
新品专项_每周_在途更新_20231130.ipynb	2023/11/30 15:42	IPYNB 文件	30 KB
新品专项_每周_在途更新_亚马逊需求_20...	2023/11/23 9:03	IPYNB 文件	13 KB
新品专项_每周_在途更新_亚马逊需求_20...	2023/11/30 15:47	IPYNB 文件	18 KB

每次运行代码需在D:\pyvenv文件下输入cmd进入命令行界面

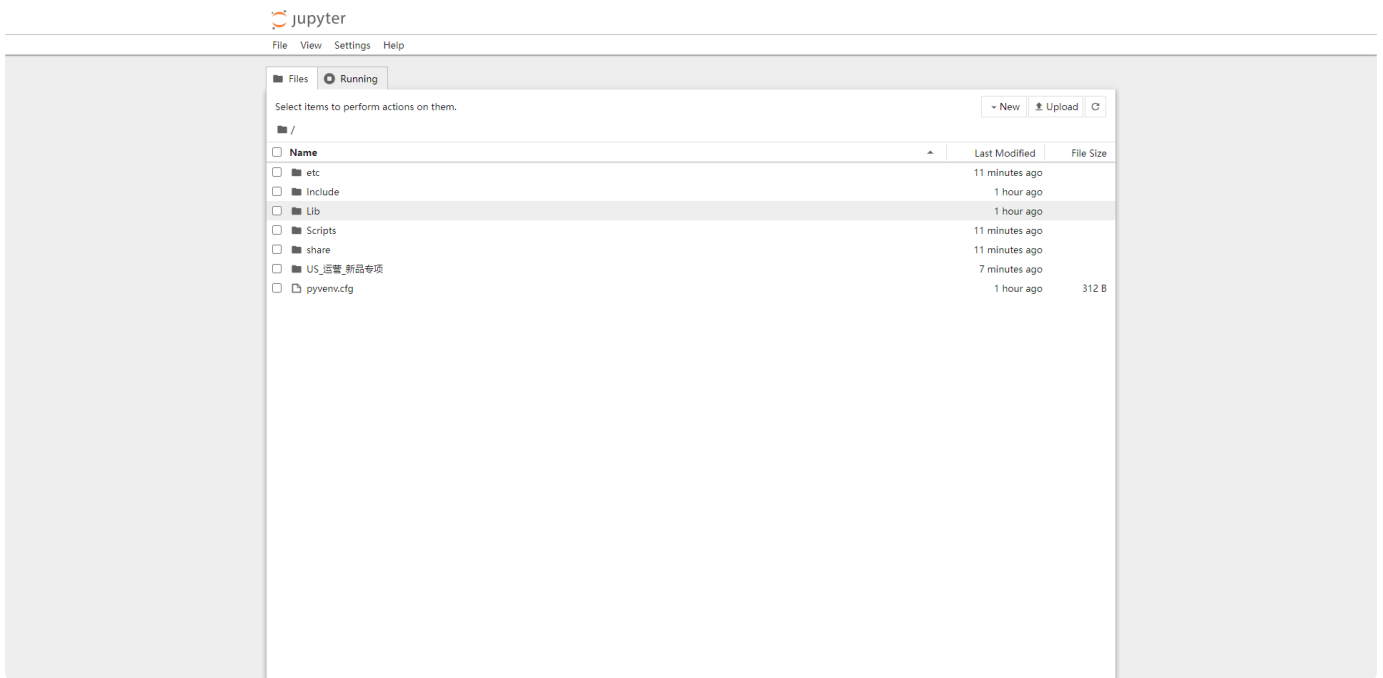


然后输入.\Scripts\activate，激活虚拟环境

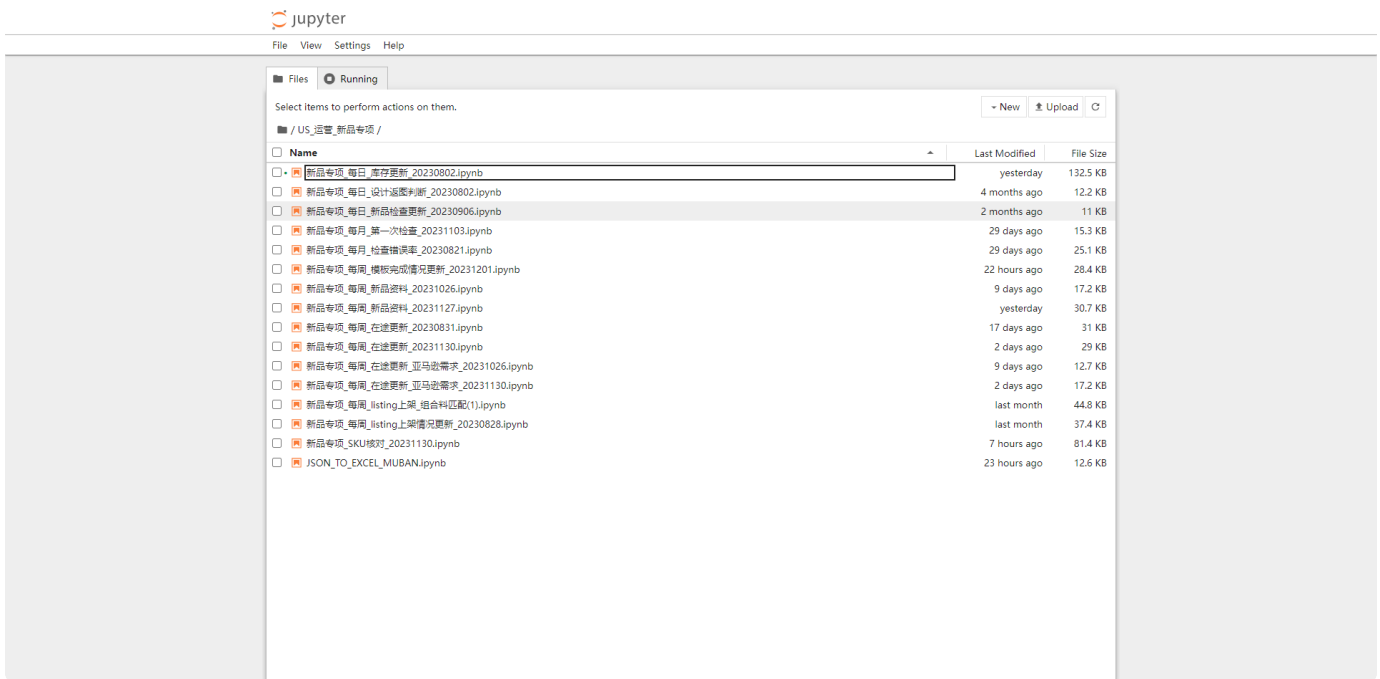


进入虚拟环境，输入jupyter notebook，进入jupyter notebook页面

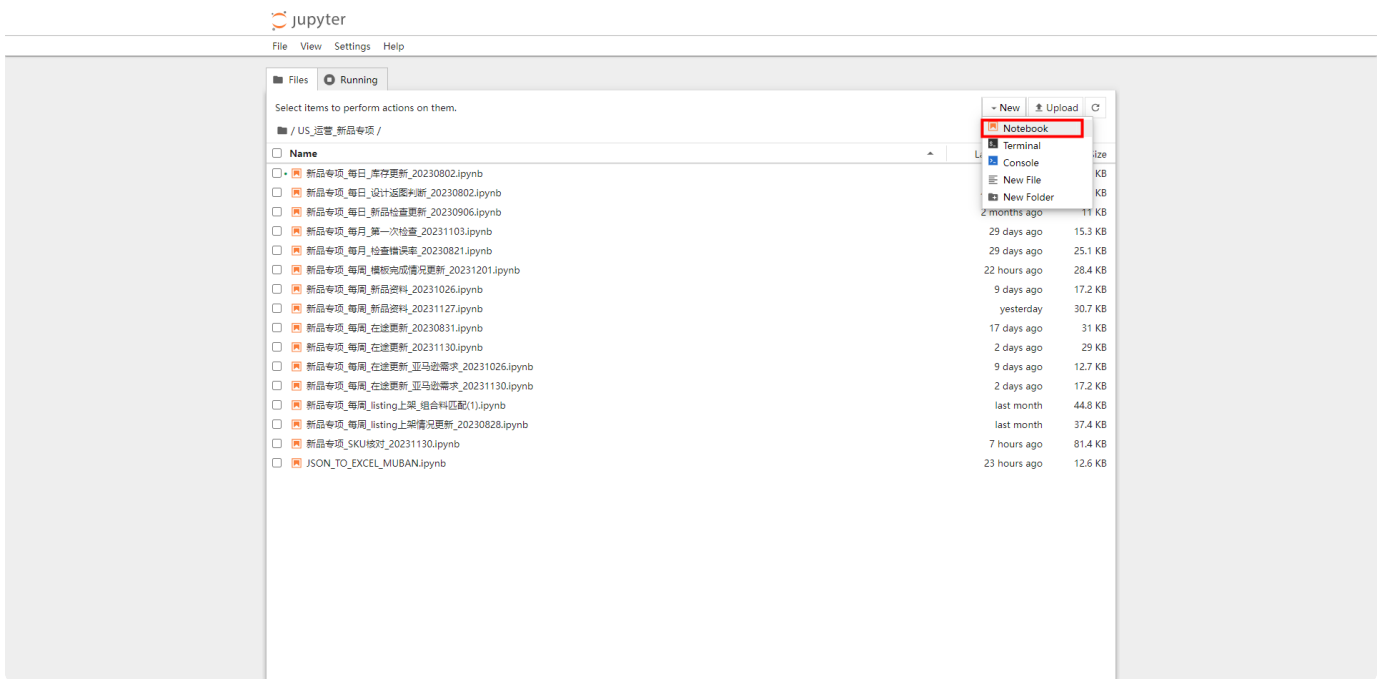
```
C:\Windows\System32\cmd.e X + v
(pyvenv) D:\pyvenv>jupyter notebook
```



进入文件夹，点击ipynb文件，即可编写或运行代码



选择右上角New→Notebook可新建ipynb文件



第一次安装python，需安装运行程序所需工具包，可直接在jupyter中新增代码块，输入pip install XXX，例如pip install pandas

jupyter 新品专项\_每日\_库存更新\_20230802 Last Checkpoint: 11 days ago

File Edit View Run Kernel Settings Help Trusted

JupyterLab liz env

```
[1]: import pandas as pd
import numpy as np
import PySimpleGUI as sg
import os
import time
from txdpy import get_letter, get_num
import win32api, win32con
from datetime import datetime
import re
import math
from openpyxl import load_workbook
from openpyxl.utils.dataframe import dataframe_to_rows

[2]: # pip install txdpy

[3]: # root_path = sg.popup_get_folder("请选择根目录文件夹")
# print(root_path)

[4]: root_path = 'D:/Liz/US运营工作/新品专项' # 包含在途进度表
altersku_path = root_path + '/C-替换料汇总表' # 包含替换料汇总表
mrp_path = root_path + '/C-MRP运营表' # 包含MRP运营表
stock_change_path = root_path + '/A-改价表' # 包含改价表

[5]: start_time = time.time()

1.0 读取数据

[6]: # 读取新品在途进度表
old_time = time.time()
for file in os.listdir(root_path):
    if 'S' not in file and '在途' in file and '进度表' in file and '结果' not in file:
        progress_transit_path = root_path + '/' + file
        print(progress_transit_path)
        df_progress_transit = pd.read_excel(progress_transit_path, sheet_name="各账号上架情况跟踪表-在途")
        df_progress_transit_c = df_progress_transit.copy()
        print("size: {}".format(len(df_progress_transit)))
        print("读取时间为%.2f秒"%(time.time()-old_time))

D:/Liz/US运营工作/新品专项/《新品专项》在途新品模板进度表_2023-11-30.xlsx
size: 18625
读取时间为11.57秒

[7]: df_progress_transit_stock = df_progress_transit[(df_progress_transit['入库单状态'].isin(['在途', '无在途'])) && (df_progress_transit['入库单状态'].isnull())]
```

可以在代码块右上角点击+, 新增代码块, 或在jupyter页面左上角新增代码块

jupyter 新品专项\_每日\_库存更新\_20230802 Last Checkpoint: 11 days ago

File Edit View Run Kernel Settings Help Trusted

JupyterLab liz env

新增代码块

```
[1]: import pandas as pd
import numpy as np
import PySimpleGUI as sg
import os
import time
from txdpy import get_letter, get_num
import win32api, win32con
from datetime import datetime
import re
import math
from openpyxl import load_workbook
from openpyxl.utils.dataframe import dataframe_to_rows

[2]: # pip install txdpy

[3]: # root_path = sg.popup_get_folder("请选择根目录文件夹")
# print(root_path)

[4]: root_path = 'D:/Liz/US运营工作/新品专项' # 包含在途进度表
altersku_path = root_path + '/C-替换料汇总表' # 包含替换料汇总表
mrp_path = root_path + '/C-MRP运营表' # 包含MRP运营表
stock_change_path = root_path + '/A-改价表' # 包含改价表

[5]: start_time = time.time()

1.0 读取数据

[6]: # 读取新品在途进度表
old_time = time.time()
for file in os.listdir(root_path):
    if 'S' not in file and '在途' in file and '进度表' in file and '结果' not in file:
        progress_transit_path = root_path + '/' + file
        print(progress_transit_path)
        df_progress_transit = pd.read_excel(progress_transit_path, sheet_name="各账号上架情况跟踪表-在途")
        df_progress_transit_c = df_progress_transit.copy()
        print("size: {}".format(len(df_progress_transit)))
        print("读取时间为%.2f秒"%(time.time()-old_time))

D:/Liz/US运营工作/新品专项/《新品专项》在途新品模板进度表_2023-11-30.xlsx
size: 18625
读取时间为11.57秒
```

新增代码块

然后输入安装代码pip install pandas, Ctrl+Enter运行

jupyter 新品专项\_每日\_库存更新\_20230802 Last Checkpoint: 11 days ago

```
[1]: import pandas as pd
import numpy as np
import PySimpleGUI as sg
import os
import time
from txdpy import get_letter, get_num
import win32api, win32con
from datetime import datetime
import re
import math
from openpyxl import load_workbook
from openpyxl.utils.dataframe import dataframe_to_rows

[2]: pip install pandas

[3]: # pip install txdpy

[4]: # root_path = sg.popup_get_folder("请选择数据目录文件夹")
# print(root_path)

[5]: root_path = 'D:/Liz/US运营工作/新品专项' # 包含在途进度表
altersku_path = root_path + '/C-替换料总表' # 包含替换料总表
mrp_path = root_path + '/C-MRP运营表' # 包含MRP运营表
stock_change_path = root_path + '/A-改价表' # 包含改价表

start_time = time.time()

1.0 读取数据

[6]: # 读取新品在途进度表
old_time = time.time()
for file in os.listdir(root_path):
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        progress_transit_path = root_path + '/' + file
        print(progress_transit_path)
        df_progress_transit = pd.read_excel(progress_transit_path, sheet_name="台账号上深情况跟踪表-在途")
        df_progress_transit_c = df_progress_transit.copy()
        print("size: {}".format(len(df_progress_transit)))
        print("读取时间为%.2f秒"% (time.time()-old_time))

D:/Liz/US运营工作/新品专项/《新品专项》在途新品模板进度表_2023-11-30.xlsx
size: 18625
读取时间为: 0.9688
```

也可以选择在命令行中安装，进入虚拟环境

```
C:\Windows\System32\cmd.e x + v

0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set PYDEVD_DISABLE_FILE_VALIDATION=1 to disable this validation.
[I 2023-12-02 16:28:28.490 ServerApp] Connecting to kernel fd147d50-1fae-44e6-aa3f-da498aab8a1e.
[I 2023-12-02 16:28:30.057 ServerApp] Starting buffering for fd147d50-1fae-44e6-aa3f-da498aab8a1e:8f01f8ae-e85d-4398-ab25-c651f38152f9
[I 2023-12-02 16:28:32.998 ServerApp] Kernel shutdown: fd147d50-1fae-44e6-aa3f-da498aab8a1e
[W 2023-12-02 16:28:33.141 ServerApp] delete /US_运营_新品专项/Untitled.ipynb
[I 2023-12-02 16:33:12.006 ServerApp] Connecting to kernel 05ea76af-4c1e-41fc-9636-d8b1d4210e95.
[I 2023-12-02 16:35:11.825 ServerApp] Saving file at /US_运营_新品专项/新品专项_每日_库存更新_20230802.ipynb
[I 2023-12-02 16:37:11.923 ServerApp] Saving file at /US_运营_新品专项/新品专项_每日_库存更新_20230802.ipynb
[I 2023-12-02 16:38:36.476 ServerApp] Interrupted...
[IPKernelApp] WARNING | Parent appears to have exited, shutting down.

(pyvenv) D:\pyvenv> pip install pandas
Collecting pandas
  Downloading pandas-2.1.3-cp311-win_amd64.whl (10.6 MB)
    10.6/10.6 MB 6.4 MB/s eta 0:00:00
Collecting numpy<2,>=1.23.2
  Downloading numpy-1.26.2-cp311-cp311-win_amd64.whl (15.8 MB)
    15.8/15.8 MB 5.6 MB/s eta 0:00:00
Requirement already satisfied: python-dateutil>=2.8.2 in d:\pyvenv\lib\site-packages (from pandas) (2.8.2)
Collecting pytz>=2020.1
  Downloading pytz-2023.3.post1-py2.py3-none-any.whl (502 kB)
    502.5/502.5 kB 6.2 MB/s eta 0:00:00
Collecting tzdata>=2022.1
  Using cached tzdata-2023.3-py2.py3-none-any.whl (341 kB)
Requirement already satisfied: six>=1.5 in d:\pyvenv\lib\site-packages (from python-dateutil>=2.8.2->pandas) (1.16.0)
Installing collected packages: pytz, tzdata, numpy, pandas
```

安装完所需工具包后，即可运行代码。