

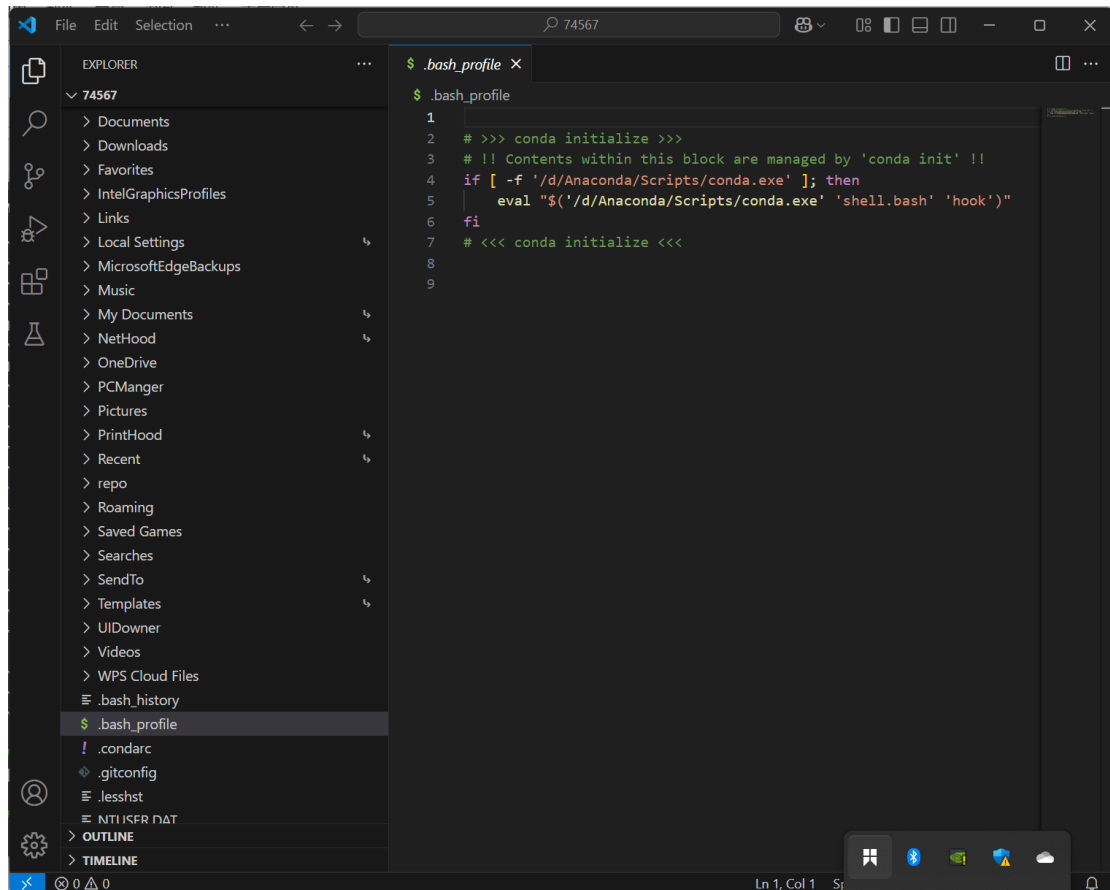
第三周学习报告

1、首先寻找 conda 位置，配置好 conda init。

```
74567@DESKTOP-N5CDCLE MINGW64 ~  
$ which conda  
/d/Anaconda/Scripts/conda
```

```
74567@DESKTOP-N5CDCLE MINGW64 ~  
$ conda init --help  
usage: conda-script.py init [-h] [--all] [--user] [--no-user] [--system] [--reverse] [--anaconda-prompt] [--json] [-v]  
                        [-q] [-d]  
                        [SHELLS ...]  
  
Initialize conda for shell interaction.  
  
positional arguments:  
  SHELLS                One or more shells to be initialized. If not given, the default value is 'bash' on unix and  
                        'cmd.exe' & 'powershell' on Windows. Use the '--all' flag to initialize all shells. Available  
                        shells: ['bash', 'cmd.exe', 'fish', 'powershell', 'tcsh', 'xonsh', 'zsh']  
  
options:  
  -h, --help            Show this help message and exit.  
  --all                Initialize all currently available shells.  
  --anaconda-prompt    Add an 'Anaconda Prompt' icon to your desktop.  
  -d, --dry-run        Only display what would have been done.  
  
setup type:  
  --user              Initialize conda for the current user (default).  
  --no-user           Don't initialize conda for the current user.  
  --system            Initialize conda for all users on the system.  
  --reverse           Undo effects of last conda init.
```

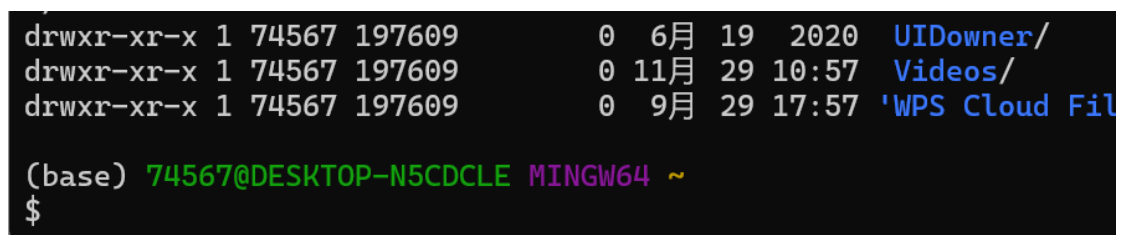
```
74567@DESKTOP-N5CDCLE MINGW64 ~  
$ conda init bash  
no change      D:\Anaconda\Scripts\conda.exe  
no change      D:\Anaconda\Scripts\conda-env.exe  
no change      D:\Anaconda\Scripts\conda-script.py  
no change      D:\Anaconda\Scripts\conda-env-script.py  
no change      D:\Anaconda\condabin\conda.bat  
no change      D:\Anaconda\Library\bin\conda.bat  
no change      D:\Anaconda\condabin\_conda_activate.bat  
no change      D:\Anaconda\condabin\rename_tmp.bat  
no change      D:\Anaconda\condabin\conda_auto_activate.bat  
no change      D:\Anaconda\condabin\conda_hook.bat  
no change      D:\Anaconda\Scripts\activate.bat  
no change      D:\Anaconda\condabin\activate.bat  
no change      D:\Anaconda\condabin\deactivate.bat  
modified       D:\Anaconda\Scripts\activate  
modified       D:\Anaconda\Scripts\deactivate  
modified       D:\Anaconda\etc\profile.d\conda.sh  
modified       D:\Anaconda\etc\fish\conf.d\conda.fish  
no change      D:\Anaconda\shell\condabin\Conda.psm1  
modified       D:\Anaconda\shell\condabin\conda-hook.ps1  
no change      D:\Anaconda\Lib\site-packages\xontrib\conda.xsh  
modified       D:\Anaconda\etc\profile.d\conda.csh  
modified       C:\Users\74567\.bash_profile  
  
==> For changes to take effect, close and re-open your current shell. <==
```



提示符（比如 \$、%）前能够看到（base）



更改换行



2、使用 `conda info` 命令查看本机 Conda 的配置信息

```
$ conda info

      active environment : base
      active env location : D:\Anaconda
            shell level : 1
      user config file : C:\Users\74567\.condarc
populated config files : D:\Anaconda\.condarc
                        C:\Users\74567\.condarc

      conda version : 24.9.2
      conda-build version : 24.9.0
      python version : 3.12.7.final.0
            solver : libmamba (default)
virtual packages : __archspec=1=skylake
                  __conda=24.9.2=0
                  __cuda=10.1=0
                  __win=0=0

      base environment : D:\Anaconda (writable)
      conda av data dir : D:\Anaconda\etc\conda
      conda av metadata url : None
            channel URLs : https://repo.anaconda.com/pkgs/main/win-64
                        https://repo.anaconda.com/pkgs/main/noarch
                        https://repo.anaconda.com/pkgs/r/win-64
                        https://repo.anaconda.com/pkgs/r/noarch
                        https://repo.anaconda.com/pkgs/msys2/win-64
                        https://repo.anaconda.com/pkgs/msys2/noarch

      package cache : D:\Anaconda\pkgs
                     C:\Users\74567\.conda\pkgs
                     C:\Users\74567\AppData\Local\conda\conda\pkgs

      envs directories : D:\Anaconda\envs
                     C:\Users\74567\.conda\envs
```

3、使用 `conda env list` 命令查看已有的 Conda 环境的名称和路径，理解 Conda 环境的概念

```
(base) 74567@DESKTOP-N5CDCLE MINGW64 ~
$ conda env list
# conda environments:
#
                                D:\ANACONDA
base * D:\Anaconda
```

4、使用 `conda create` 命令创建两个 Conda 环境，一个里面安装 Python 3.12 和 `requests` 软件包，另一个里面安装 Python 3.9、`pandas` 和 `statsmodels` 软件包，能够在终端里切换 Conda 环境，验证 Python 和软件包的版本

```
(base) 74567@DESKTOP-N5CDCLE MINGW64 ~  
$ conda create -n prj1 python=3.12 requests  
Channels:  
- defaults  
Platform: win-64  
Collecting package metadata (repodata.json): done  
Solving environment: done
```

Package Plan

environment location: D:\Anaconda\envs\prj1

added / updated specs:

- python=3.12
- requests

The following packages will be downloaded:

package	build	
brotli-python-1.0.9	py312h5da7b33_9	347 KB
bzip2-1.0.8	h2bbff1b_6	90 KB
ca-certificates-2025.2.25	haa95532_0	130 KB
certifi-2025.1.31	py312haa95532_0	164 KB
charset-normalizer-3.3.2	pyhd3eb1b0_0	44 KB
expat-2.6.4	h8ddb27b_0	257 KB
idna-3.7	py312haa95532_0	133 KB
libffi-3.4.4	hd77b12b_1	122 KB

```
(base) 74567@DESKTOP-N5CDCLE MINGW64 ~  
$ conda create -n prj2 python=3.9 pandas statsmodels  
Channels:  
- defaults  
Platform: win-64  
Collecting package metadata (repodata.json): done  
Solving environment: done
```

Package Plan

environment location: D:\Anaconda\envs\prj2

added / updated specs:

- pandas
- python=3.9
- statsmodels

The following packages will be downloaded:

package	build	
blas-1.0	mkl	6 KB
bottleneck-1.4.2	py39hc99e966_0	129 KB
icc_rt-2022.1.0	h6049295_2	6.5 MB
intel-openmp-2023.1.0	h59b6b97_46320	2.7 MB
mkl-2023.1.0	h6b88ed4_46358	155.9 MB
mkl-service-2.4.0	py39h827c3e9_2	66 KB
mkl_fft-1.3.11	py39h827c3e9_0	167 KB
mkl_random-1.2.8	py39hc64d2fc_0	257 KB

```
(base) 74567@DESKTOP-N5CDCLE MINGW64 ~
$ conda activate prj1
(prj1)
74567@DESKTOP-N5CDCLE MINGW64 ~
$ which python
/d/Anaconda/envs/prj1/python
(prj1)
74567@DESKTOP-N5CDCLE MINGW64 ~
$ python --version
Python 3.12.9
(prj1)
74567@DESKTOP-N5CDCLE MINGW64 ~
$ python
Python 3.12.9 | packaged by Anaconda, Inc. | (main, Feb 6 2025, 18:49:16) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> quit()
(prj1)
74567@DESKTOP-N5CDCLE MINGW64 ~
$ ls -l
total 21637
lrwxrwxrwx 1 74567 197609      59 11月 28 18:19 「开始」菜单 -> '/c/Users/74567/AppData/Roaming/Microsoft/Windows/Star
t Menu/'
drwxr-xr-x 1 74567 197609      0 4月 30 2023 '3D Objects'/
drwxr-xr-x 1 74567 197609      0 3月 12 16:10 ado/
drwxr-xr-x 1 74567 197609      0 1月 21 2022 ansel/
drwxr-xr-x 1 74567 197609      0 11月 28 18:22 AppData/
```

```
74567@DESKTOP-N5CDCLE MINGW64 ~
$ python
Python 3.12.9 | packaged by Anaconda, Inc. | (main, Feb 6 2025, 18:49:16) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> ls -l
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'ls' is not defined
>>> import requests
>>> requests
<module 'requests' from 'D:\\Anaconda\\envs\\prj1\\Lib\\site-packages\\requests\\__init__.py'>
>>> requests.__file__
'D:\\Anaconda\\envs\\prj1\\Lib\\site-packages\\requests\\__init__.py'
>>> import pandas
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ModuleNotFoundError: No module named 'pandas'
>>> import statsmodels
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ModuleNotFoundError: No module named 'statsmodels'
>>> quit()
(prj1)
```

```
74567@DESKTOP-N5CDCLE MINGW64 ~
$ python --version
Python 3.9.21
(prj2)
74567@DESKTOP-N5CDCLE MINGW64 ~
$ python
Python 3.9.21 (main, Dec 11 2024, 16:35:24) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import requests
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ModuleNotFoundError: No module named 'requests'
>>> import pandas
>>> pandas.__files__
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: module 'pandas' has no attribute '__files__'
>>> pandas.__file__
'D:\\Anaconda\\envs\\prj2\\lib\\site-packages\\pandas\\__init__.py'
>>> pandas.__version__
'2.2.3'
>>> import statsmodel
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ModuleNotFoundError: No module named 'statsmodel'
>>> import statsmodels
>>> statsmodels.__version__
'0.14.4'
```

5、使用 conda list 命令显示 Conda 环境里的软件包列表及其版本信息

```
$ conda list
# packages in environment at D:\Anaconda\envs\prj2:
#
# Name                          Version                      Build      Channel
blas                            1.0                          mkl
bottleneck                     1.4.2                        py39hc99e966_0
ca-certificates                2025.2.25                    haa95532_0
icc_rt                         2022.1.0                      h6049295_2
intel-openmp                   2023.1.0                      h59b6b97_46320
mkl                             2023.1.0                      h6b88ed4_46358
mkl-service                    2.4.0                        py39h827c3e9_2
mkl_fft                        1.3.11                       py39h827c3e9_0
mkl_random                     1.2.8                        py39hc64d2fc_0
numexpr                        2.10.1                       py39h4cd664f_0
numpy                          2.0.2                        py39h055cbcc_0
numpy-base                    2.0.2                        py39h65a83cf_0
openssl                        3.0.16                       h3f729d1_0
packaging                      24.2                         py39haa95532_0
pandas                         2.2.3                        py39h5da7b33_0
patsy                          1.0.1                        py39haa95532_0
pip                            25.0                         py39haa95532_0
pybind11-abi                   5                             hd3eb1b0_0
python                         3.9.21                       h8205438_1
python-dateutil                2.9.0post0                   py39haa95532_2
python-tzdata                  2023.3                       pyhd3eb1b0_0
pytz                           2024.1                       py39haa95532_0
scipy                          1.13.1                       py39h8640f81_1
setuptools                     72.1.0                       py39haa95532_0
six                             1.16.0                       pyhd3eb1b0_1
sqlite                         3.45.3                       h2bbff1b_0
```

```
74567@DESKTOP-N5CDCLE MINGW64 ~
$ conda list
# packages in environment at D:\Anaconda\envs\prj1:
#
# Name                          Version                      Build      Channel
brotli-python                  1.0.9                        py312h5da7b33_9
bzip2                          1.0.8                        h2bbff1b_6
ca-certificates                2025.2.25                    haa95532_0
certifi                        2025.1.31                    py312haa95532_0
charset-normalizer             3.3.2                        pyhd3eb1b0_0
expat                          2.6.4                        h8ddb27b_0
idna                           3.7                           py312haa95532_0
libffi                         3.4.4                        hd77b12b_1
openssl                        3.0.16                       h3f729d1_0
pip                             25.0                         py312haa95532_0
pysocks                        1.7.1                        py312haa95532_0
python                         3.12.9                       h14fffc60_0
requests                       2.32.3                       py312haa95532_1
setuptools                     75.8.0                       py312haa95532_0
sqlite                         3.45.3                       h2bbff1b_0
tk                              8.6.14                       h0416ee5_0
tzdata                         2025a                        h04d1e81_0
urllib3                        2.3.0                        py312haa95532_0
vc                             14.42                        haa95532_4
vs2015_runtime                 14.42.34433                  he0abc0d_4
wheel                          0.45.1                       py312haa95532_0
win_inet_pton                  1.1.0                        py312haa95532_0
xz                             5.6.4                        h4754444_1
zlib                           1.2.13                       h8cc25b3_1
```

6、使用 `conda install` 命令往 Conda 环境里安装更多的软件包，并验证版本

```
74567@DESKTOP-N5CDCLE MINGW64 ~
$ conda install ipython
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done
```

```
## Package Plan ##
```

```
environment location: D:\Anaconda\envs\prj1
```

```
added / updated specs:
- ipython
```

```
The following packages will be downloaded:
```

package	build	
asttokens-2.0.5	pyhd3eb1b0_0	20 KB
colorama-0.4.6	py312haa95532_0	53 KB
decorator-5.1.1	pyhd3eb1b0_0	12 KB
executing-0.8.3	pyhd3eb1b0_0	18 KB
ipython-8.30.0	py312haa95532_0	1.5 MB
jedi-0.19.2	py312haa95532_0	1.2 MB

```
74567@DESKTOP-N5CDCLE MINGW64 ~
$ conda list
# packages in environment at D:\Anaconda\envs\prj1:
#
# Name                                Version                                Build                                Channel
asttokens                             2.0.5                                pyhd3eb1b0_0                        conda-forge
brotli-python                         1.0.9                                py312h5da7b33_9                      conda-forge
bzip2                                 1.0.8                                h2bbff1b_6                          conda-forge
ca-certificates                       2025.2.25                             haa95532_0                          conda-forge
certifi                               2025.1.31                             py312haa95532_0                      conda-forge
charset-normalizer                    3.3.2                                pyhd3eb1b0_0                        conda-forge
colorama                              0.4.6                                py312haa95532_0                      conda-forge
decorator                             5.1.1                                pyhd3eb1b0_0                        conda-forge
executing                             0.8.3                                pyhd3eb1b0_0                        conda-forge
expat                                 2.6.4                                h8ddb27b_0                          conda-forge
idna                                  3.7                                  py312haa95532_0                      conda-forge
ipython                               8.30.0                               py312haa95532_0                      conda-forge
jedi                                  0.19.2                               py312haa95532_0                      conda-forge
libffi                                3.4.4                                hd77b12b_1                          conda-forge
matplotlib-inline                     0.1.6                                py312haa95532_0                      conda-forge
openssl                               3.0.16                               h3f729d1_0                          conda-forge
parso                                 0.8.4                                py312haa95532_0                      conda-forge
pip                                   25.0                                 py312haa95532_0                      conda-forge
prompt-toolkit                        3.0.43                               py312haa95532_0                      conda-forge
prompt_toolkit                        3.0.43                               hd3eb1b0_0                          conda-forge
pure_eval                             0.2.2                                pyhd3eb1b0_0                        conda-forge
pygments                              2.15.1                               py312haa95532_1                      conda-forge
pysocks                              1.7.1                                py312haa95532_0                      conda-forge
python                               3.12.9                               h14fffc60_0                          conda-forge
requests                             2.32.3                               py312haa95532_1                      conda-forge
```

7、根据文档，配置 Anaconda 清华镜像，加快 conda install 安装软件包的速度，将 conda-forge 设置为默认 Channel，让 conda install 能够安装更多的软件包

```
74567@DESKTOP-N5CDCLE MINGW64 ~
$ conda config --set show_channel_urls yes
(prj1)
```

```

! .condarc
1  channels:
2    - defaults
3  show_channel_urls: true
4  default_channels:
5    - https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/main
6    - https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/r
7    - https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/msys2
8  custom_channels:
9    conda-forge: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
10   pytorch: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
11

```

```

74567@DESKTOP-H5CDCL MINGW64 ~
$ conda clean --help
usage: conda-script.py clean [-h] [-a] [-i] [-p] [-t] [-f] [-c [TEMPFILES ...]] [-l] [--json] [-v] [-q] [-d] [-y]

Remove unused packages and caches.

options:
  -h, --help            Show this help message and exit.

Removal Targets:
  -a, --all              Remove index cache, lock files, unused cache packages, tarballs, and logfiles.
  -i, --index-cache      Remove index cache.
  -p, --packages          Remove unused packages from writable package caches. WARNING: This does not check for packages
                          installed using symlinks back to the package cache.
  -t, --tarballs          Remove cached package tarballs.
  -f, --force-pkgs-dirs   Remove *all* writable package caches. This option is not included with the --all flag.
                          WARNING: This will break environments with packages installed using symlinks back to the
                          package cache.
  -c [TEMPFILES ...], --tempfiles [TEMPFILES ...] Remove temporary files that could not be deleted earlier due to being in-use. The argument for
                          the --tempfiles flag is a path (or list of paths) to the environment(s) where the tempfiles
                          should be found and removed.
  -l, --logfiles          Remove log files.

```

```

! .condarc
1  channels:
2    - conda-forge
3    - defaults
4  show_channel_urls: true
5  default_channels:
6    - https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/main
7    - https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/r
8    - https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/msys2
9  custom_channels:
10   conda-forge: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
11   pytorch: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
12  channel_priority: strict
13

```



```

74567@DESKTOP-N5CDCLE MINGW64 ~
$ conda install polars
Channels:
- conda-forge
- https://repo.anaconda.com/pkgs/main
- https://repo.anaconda.com/pkgs/r
- https://repo.anaconda.com/pkgs/msys2
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: D:\Anaconda\envs\prj1

  added / updated specs:
  - polars

The following packages will be downloaded:


```

package	build		
certifi-2025.1.31	pyhd8ed1ab_0	159 KB	conda-forge
intel-openmp-2024.2.1	h57928b3_1083	1.8 MB	conda-forge
libblas-3.9.0	31_h641d27c_mkl	3.6 MB	conda-forge
libcbblas-3.9.0	31_h5e41251_mkl	3.6 MB	conda-forge
libexpat-2.6.4	he0c23c2_0	136 KB	conda-forge
libhwloc-2.11.2	default_ha69328c_1001	2.3 MB	conda-forge

如果下载崩溃，可以删除环境

```
$conda env remove -n prj1
```

8、使用 pip install 命令往 Conda 环境里安装 Python 软件包，并验证版本

```

74567@DESKTOP-N5CDCLE MINGW64 ~
$ pip install tushare
Collecting tushare
  Downloading tushare-1.4.19-py3-none-any.whl.metadata (3.1 kB)
Collecting pandas (from tushare)
  Downloading pandas-2.2.3-cp312-cp312-win_amd64.whl.metadata (19 kB)
Requirement already satisfied: requests in d:\anaconda\envs\prj1\lib\site-packages (from tushare) (2.32.3)
Collecting lxml (from tushare)
  Downloading lxml-5.3.1-cp312-cp312-win_amd64.whl.metadata (3.8 kB)
Collecting simplejson (from tushare)
  Downloading simplejson-3.20.1-cp312-cp312-win_amd64.whl.metadata (3.4 kB)
Collecting bs4 (from tushare)
  Downloading bs4-0.0.2-py2.py3-none-any.whl.metadata (411 bytes)
Collecting websocket-client>=0.57.0 (from tushare)
  Downloading websocket_client-1.8.0-py3-none-any.whl.metadata (8.0 kB)
Collecting tqdm (from tushare)
  Downloading tqdm-4.67.1-py3-none-any.whl.metadata (57 kB)
Collecting beautifulsoup4 (from bs4->tushare)
  Downloading beautifulsoup4-4.13.3-py3-none-any.whl.metadata (3.8 kB)
Requirement already satisfied: numpy>=1.26.0 in d:\anaconda\envs\prj1\lib\site-packages (from pandas->tushare) (2.2.4)
Collecting python-dateutil>=2.8.2 (from pandas->tushare)
  Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting pytz>=2020.1 (from pandas->tushare)
  Downloading pytz-2025.1-py2.py3-none-any.whl.metadata (22 kB)
Collecting tzdata>=2022.7 (from pandas->tushare)
  Downloading tzdata-2025.1-py2.py3-none-any.whl.metadata (1.4 kB)
Requirement already satisfied: charset-normalizer<4,>=2 in d:\anaconda\envs\prj1\lib\site-packages (from requests->tushare) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in d:\anaconda\envs\prj1\lib\site-packages (from requests->tushare) (3.7)

```

9、根据文档配置 PyPI 清华镜像，加快 pip install 安装软件包的速度

```

74567@DESKTOP-N5CDCLE MINGW64 ~
$ python -m pip install --upgrade pip
Requirement already satisfied: pip in d:\anaconda\envs\prj1\lib\site-packages (25.0)
Collecting pip
  Downloading pip-25.0.1-py3-none-any.whl.metadata (3.7 kB)
  Downloading pip-25.0.1-py3-none-any.whl (1.8 MB)
    1.8/1.8 MB 1.6 MB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 25.0
    Uninstalling pip-25.0:
      Successfully uninstalled pip-25.0
  Successfully installed pip-25.0.1
(prj1)
74567@DESKTOP-N5CDCLE MINGW64 ~
$ pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Writing to C:\Users\74567\AppData\Roaming\pip\pip.ini
(prj1)

```

10、能够导出 environment.yml Conda 环境配置文件，能够删除 Conda 环境，能够用 environment.yml 配置文件重建 Conda 环境

```

74567@DESKTOP-N5CDCLE MINGW64 ~
$ conda env export
name: prj1
channels:
  - conda-forge
  - https://repo.anaconda.com/pkgs/main
  - https://repo.anaconda.com/pkgs/r
  - https://repo.anaconda.com/pkgs/msys2
dependencies:
  - asttokens=2.0.5=pyhd3eb1b0_0
  - brotli-python=1.0.9=py312h5da7b33_9
  - bzip2=1.0.8=h2bbff1b_6
  - ca-certificates=2025.2.25=haa95532_0
  - certifi=2025.1.31=pyhd8ed1ab_0
  - charset-normalizer=3.3.2=pyhd3eb1b0_0
  - colorama=0.4.6=py312haa95532_0
  - decorator=5.1.1=pyhd3eb1b0_0
  - executing=0.8.3=pyhd3eb1b0_0
  - expat=2.6.4=h8ddb27b_0
  - idna=3.7=py312haa95532_0
  - intel-openmp=2024.2.1=h57928b3_1083
  - ipython=8.30.0=py312haa95532_0
  - jedi=0.19.2=py312haa95532_0

```

```
74567@DESKTOP-N5CDCLL MINGW64 ~  
$ conda env export -help  
usage: conda-script.py env export [-h] [-c CHANNEL] [--override-channels] [-n ENVIRONMENT | -p PATH] [-f FILE]  
      [--no-builds] [--ignore-channels] [--json] [-v] [-q] [--from-history]  
  
Export a given environment  
  
options:  
  -h, --help            Show this help message and exit.  
  -c CHANNEL, --channel CHANNEL  
                        Additional channel to include in the export  
  --override-channels    Do not include .condarc channels  
  -f FILE, --file FILE   File name or path for the exported environment. Note: This will silently overwrite any  
                        existing file of the same name in the current directory.  
  --no-builds            Remove build specification from dependencies  
  --ignore-channels      Do not include channel names with package names.  
  --from-history          Build environment spec from explicit specs in history  
  
Target Environment Specification:  
  -n ENVIRONMENT, --name ENVIRONMENT  
                        Name of environment.  
  -p PATH, --prefix PATH  
                        Full path to environment location (i.e. prefix).  
  
Output, Prompt, and Flow Control Options:  
  --json                Report all output as json. Suitable for using conda programmatically.  
  -v, --verbose         Can be used multiple times. Once for detailed output, twice for INFO logging, thrice for DEBU
```

```
74567@DESKTOP-N5CDCLL MINGW64 ~  
$ conda env export -f enviroment.yml  
(prj1)
```

! enviroment.yml

```
1 name: prj1
2 channels:
3   - conda-forge
4   - https://repo.anaconda.com/pkg/main
5   - https://repo.anaconda.com/pkg/r
6   - https://repo.anaconda.com/pkg/msys2
7 dependencies:
8   - asttokens=2.0.5=pyhd3eb1b0_0
9   - brotli-python=1.0.9=py312h5da7b33_9
10  - bzip2=1.0.8=h2bbff1b_6
11  - ca-certificates=2025.2.25=haa95532_0
12  - certifi=2025.1.31=pyhd8ed1ab_0
13  - charset-normalizer=3.3.2=pyhd3eb1b0_0
14  - colorama=0.4.6=py312haa95532_0
15  - decorator=5.1.1=pyhd3eb1b0_0
16  - executing=0.8.3=pyhd3eb1b0_0
17  - expat=2.6.4=h8ddb27b_0
18  - idna=3.7=py312haa95532_0
19  - intel-openmp=2024.2.1=h57928b3_1083
20  - ipython=8.30.0=py312haa95532_0
21  - jedi=0.19.2=py312haa95532_0
22  - libblas=3.9.0=31_h641d27c_mkl
23  - libcbblas=3.9.0=31_h5e41251_mkl
24  - libexpat=2.6.4=he0c23c2_0
25  - libffi=3.4.4=hd77b12b_1
26  - libhwloc=2.11.2=default_ha69328c_1001
27  - libiconv=1.18=h135ad9c_1
28  - liblapack=3.9.0=31_h1aa476e_mkl
29  - liblzma=5.6.4=h2466b09_0
30  - libsqlite=3.49.1=h67fdade_2
31  - libwinpthread=12.0.0.r4.gg4f2fc60ca=h57928b3_9
32  - libxml2=2.13.6=he286e8c_0
33  - libzlib=1.3.1=h2466b09_2
34  - matplotlib-inline=0.1.6=py312haa95532_0
35  - mkl=2024.2.2=h66d3029_15
36  - numpy=2.2.4=py312h3150e54_0
37  - openssl=3.4.1=ha4e3fda_0
38  - packaging=24.2=pyhd8ed1ab_2
39  - parso=0.8.4=py312haa95532_0
40  - prompt-toolkit=3.0.43=py312haa95532_0
41  - prompt_toolkit=3.0.43=hd3eb1b0_0
42  - pure_eval=0.2.2=pyhd3eb1b0_0
```

```
EXPLORER
PRJ1
! enviroment.yml
! enviroment.yml
7 dependencies:
49 - six=1.16.0=pyhd3eb1b0_1
50 - sqlite=3.45.3=h2bbff1b_0
51 - stack_data=0.2.0=pyhd3eb1b0_0
52 - tbb=2021.13.0=h62715c5_1
53 - tk=8.6.13=h5226925_1
54 - traitlets=5.14.3=py312haa95532_0
55 - ucrt=10.0.22621.0=h57928b3_1
56 - urllib3=2.3.0=py312haa95532_0
57 - vc=14.42=haa95532_4
58 - vc14_runtime=14.42.34438=hfd919c2_24
59 - vs2015_runtime=14.42.34438=h7142326_24
60 - wcwidth=0.2.5=pyhd3eb1b0_0
61 - wheel=0.45.1=py312haa95532_0
62 - win_inet_pton=1.1.0=py312haa95532_0
63 - xz=5.6.4=h4754444_1
64 - zlib=1.3.1=h2466b09_2
65 - pip:
66   - beautifulsoup4==4.13.3
67   - bs4==0.0.2
68   - lxml==5.3.1
69   - pandas==2.2.3
70   - pip==25.0.1
71   - polars==1.24.0
72   - python-dateutil==2.9.0.post0
73   - pytz==2025.1
74   - simplejson==3.20.1
75   - soupsieve==2.6
76   - tqdm==4.67.1
77   - tushare==1.4.19
78   - typing-extensions==4.12.2
79   - tzdata==2025.1
80   - websocket-client==1.8.0
81 prefix: D:\Anaconda\envs\prj1
82
```

```
74567@DESKTOP-N5CDCLE MINGW64 ~/repo/prj1
$ conda env create --help
usage: conda-script.py env create [-h] [-f FILE] [-n ENVIRONMENT] [-p PATH] [-C] [-k] [--offline]
                                   [--no-default-packages] [--json] [-v] [-q] [-d] [-y] [--solver {classic,libman}
                                   [--subdir SUBDIR]
                                   [remote_definition]

Create an environment based on an environment definition file.

If using an environment.yml file (the default), you can name the
environment in the first line of the file with 'name: envname' or
you can specify the environment name in the CLI command using the
-n/--name argument. The name specified in the CLI will override
the name specified in the environment.yml file.

Unless you are in the directory containing the environment definition
file, use -f to specify the file path of the environment definition
file you want to use.

positional arguments:
  remote_definition      'remote_definition' is deprecated and will be removed in 25.9. Use 'conda env create
                        --file=URL' instead.

options:
  -h, --help            Show this help message and exit.
  -f FILE, --file FILE  Environment definition file (default: environment.yml)
```

11、按照教程创建项目目录，在 VS Code 文本编辑器里安装一些支持 Python 开发的常用扩展，编写 main.py 脚本，创建该项目专用的 Conda 环境，在终端里激活该环境并成功运行该脚本

```
(base) 74567@DESKTOP-N5CDCLE MINGW64 ~/repo
$ mkdir my-project

(base) 74567@DESKTOP-N5CDCLE MINGW64 ~/repo
$ ls -l
total 8
drwxr-xr-x 1 74567 197609 0 3月 22 17:23 my-project/
drwxr-xr-x 1 74567 197609 0 3月 22 16:40 prj1/
drwxr-xr-x 1 74567 197609 0 3月 8 16:54 week01/
drwxr-xr-x 1 74567 197609 0 3月 15 18:58 week02/

(base) 74567@DESKTOP-N5CDCLE MINGW64 ~/repo
$ code my-project
node:internal/modules/cjs/loader:1235
  throw err;
  ^
Error: Cannot find module 'D:\Anaconda\Library\d\Microsoft VS Code\resources\app\out\cli.js'
    at Module._resolveFilename (node:internal/modules/cjs/loader:1232:15)
    at Module._load (node:internal/modules/cjs/loader:1058:27)
    at c._load (node:electron/js2c/node_init:2:16955)
    at Function.executeUserEntryPoint [as runMain] (node:internal/modules/run_main:188:12)
    at node:internal/main/run_main_module:28:49 {
  code: 'MODULE_NOT_FOUND',
  requireStack: []
}

Node.js v20.18.2
```

```
(base) 74567@DESKTOP-N5CDCLE MINGW64 ~/repo
$ ls -l
total 8
drwxr-xr-x 1 74567 197609 0 3月 22 17:42 my-project/
drwxr-xr-x 1 74567 197609 0 3月 22 17:41 prj1/
drwxr-xr-x 1 74567 197609 0 3月 8 16:54 week01/
drwxr-xr-x 1 74567 197609 0 3月 15 18:58 week02/

done
#
# To activate this environment, use
#
#     $ conda activate my-project
#
# To deactivate an active environment, use
#
#     $ conda deactivate
```

```
! environment.yml
1  name: my-project
2  channels:
3    - conda-forge
4  dependencies:
5    - python=3.12
6    - pandas
```

main.py > ...

```
1  import pandas as pd
2
3  def main():
4      print("Hello, conda!")
5
6
7  if __name__ == "__main__":
8      main()
```