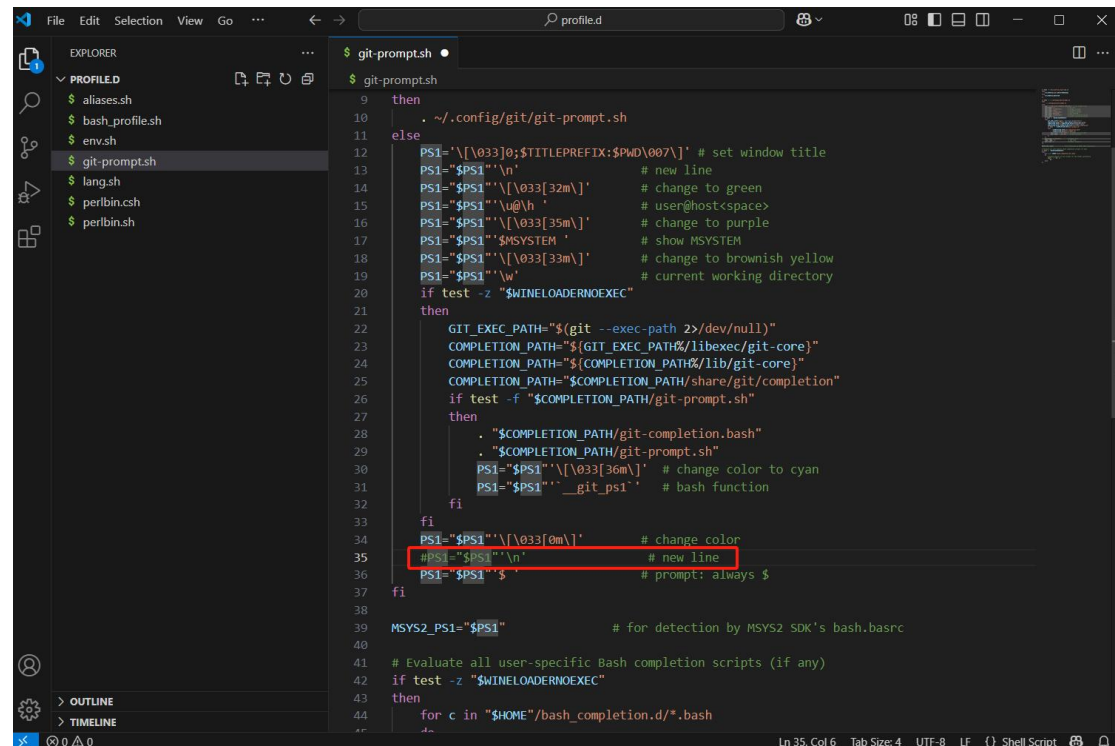


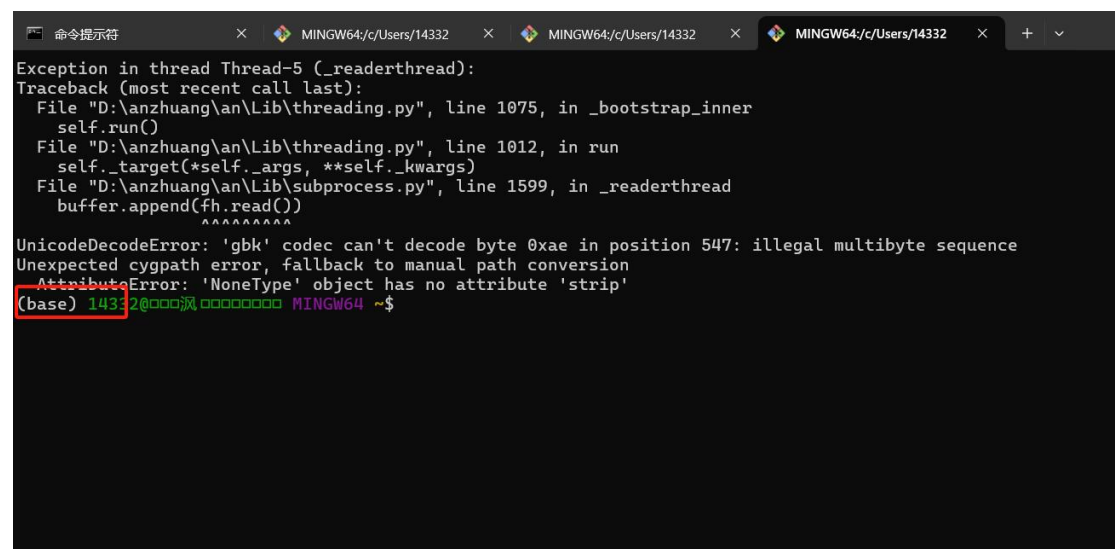
part1-在终端配置 Conda 初始化

1. 删除第 13 行（前面加#变成注释）



```
9 then
10     . ~/.config/git/git-prompt.sh
11 else
12     PS1='\[\033]0;$TITLEPREFIX:$PWD\007\]' # set window title
13     PS1="$PS1" # new line
14     PS1="$PS1"'\[\033[32m\]' # change to green
15     PS1="$PS1"'\u@h ' # user@host<space>
16     PS1="$PS1"'\[\033[35m\]' # change to purple
17     PS1="$PS1"`${MSYSTEM} ` # show MSYSTEM
18     PS1="$PS1"'\[\033[33m\]' # change to brownish yellow
19     PS1="$PS1"'\w' # current working directory
20     if test -z "$WINELOADERNOEXEC"
21     then
22         GIT_EXEC_PATH="$(git --exec-path 2>/dev/null)"
23         COMPLETION_PATH="$(GIT_EXEC_PATH%/libexec/git-core)"
24         COMPLETION_PATH="$(COMPLETION_PATH%/lib/git-core)"
25         COMPLETION_PATH="$(COMPLETION_PATH%/share/git/completion)"
26         if test -f "$COMPLETION_PATH/git-prompt.sh"
27         then
28             . "$COMPLETION_PATH/git-completion.bash"
29             . "$COMPLETION_PATH/git-prompt.sh"
30             PS1="$PS1"'\[\033[36m\]' # change color to cyan
31             PS1="$PS1"__git_ps1 # bash function
32         fi
33     fi
34     PS1="$PS1"'\[\033[0m\]' # change color
35     #PS1="$PS1"'\n' # new line
36     PS1="$PS1" '$ ' # prompt: always $
37 fi
38
39 MSYS2_PS1="$PS1" # for detection by MSYS2 SDK's bash.basrc
40
41 # Evaluate all user-specific Bash completion scripts (if any)
42 if test -z "$WINELOADERNOEXEC"
43 then
44     for c in "$HOME"/bash_completion.d/*.bash
45     do
```

2. “base” 设置到前面



```
命令提示符
Exception in thread Thread-5 (_readerthread):
Traceback (most recent call last):
  File "D:\anzhuang\an\Lib\threading.py", line 1075, in _bootstrap_inner
    self.run()
  File "D:\anzhuang\an\Lib\threading.py", line 1012, in run
    self._target(*self._args, **self._kwargs)
  File "D:\anzhuang\an\Lib\subprocess.py", line 1599, in _readerthread
    buffer.append(fh.read())
    ^^^^^^^^^^^
UnicodeDecodeError: 'gbk' codec can't decode byte 0xae in position 547: illegal multibyte sequence
Unexpected cygpath error, fallback to manual path conversion
AttributeError: 'NoneType' object has no attribute 'strip'
(base) 14332@MINGW64 ~$
```

part2-创建 Conda 环境

1. 使用 conda info 命令

```
(base) 14332@00000000 MINGW64 ~$ conda info

active environment : base
active env location : D:\anzhuang\an
shell level : 1
user config file : C:\Users\14332\.condarc
populated config files : D:\anzhuang\an\.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=12.6=0
                  __win=0=0

base environment : D:\anzhuang\an (writable)
conda av data dir : D:\anzhuang\an\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

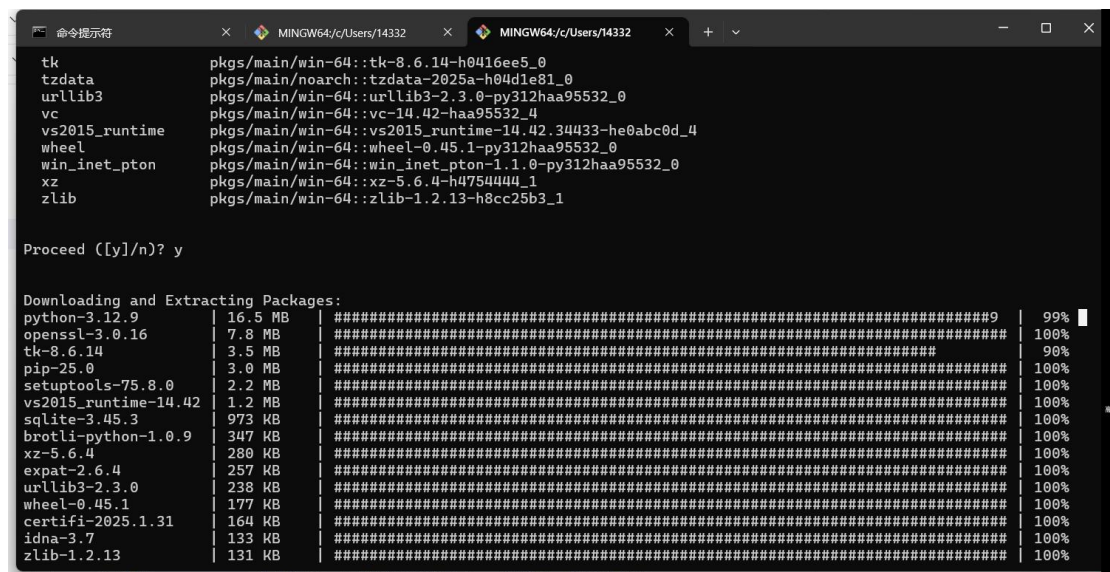
package cache : D:\anzhuang\an\pkgs
                C:\Users\14332\.conda\pkgs
                C:\Users\14332\AppData\Local\conda\conda\pkgs

envs directories : D:\anzhuang\an\envs
                  C:\Users\14332\.conda\envs
                  C:\Users\14332\AppData\Local\conda\conda\envs
```

2. 使用 `conda env list` 命令查看已有的 Conda 环境的名称和路径

```
(base) 14332@00000000 MINGW64 ~$ conda env list
# conda environments:
#
base * D:\anzhuang\an
```

3. 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



```
命令提示符
MINGW64/c/Users/14332
MINGW64/c/Users/14332

tk                pkgs/main/win-64::tk-8.6.14-h0416ee5_0
tzdata            pkgs/main/noarch::tzdata-2025a-h04d1e81_0
urllib3           pkgs/main/win-64::urllib3-2.3.0-py312haa95532_0
vc               pkgs/main/win-64::vc-14.42-haa95532_4
vs2015_runtime    pkgs/main/win-64::vs2015_runtime-14.42.34433-he0abc0d_4
wheel            pkgs/main/win-64::wheel-0.45.1-py312haa95532_0
win_inet_pton     pkgs/main/win-64::win_inet_pton-1.1.0-py312haa95532_0
xz               pkgs/main/win-64::xz-5.6.4-h4754444_1
zlib             pkgs/main/win-64::zlib-1.2.13-h8cc25b3_1

Proceed ([y]/n)? y

Downloading and Extracting Packages:
python-3.12.9      | 16.5 MB | ##### 99%
openssl-3.0.16    | 7.8 MB  | ##### 100%
tk-8.6.14         | 3.5 MB  | ##### 90%
pip-25.0          | 3.0 MB  | ##### 100%
setuptools-75.8.0 | 2.2 MB  | ##### 100%
vs2015_runtime-14.42 | 1.2 MB  | ##### 100%
sqlite-3.45.3     | 973 KB  | ##### 100%
brotli-python-1.0.9 | 347 KB  | ##### 100%
xz-5.6.4         | 280 KB  | ##### 100%
expat-2.6.4       | 257 KB  | ##### 100%
urllib3-2.3.0     | 238 KB  | ##### 100%
wheel-0.45.1      | 177 KB  | ##### 100%
certifi-2025.1.31 | 164 KB  | ##### 100%
idna-3.7          | 133 KB  | ##### 100%
zlib-1.2.13       | 131 KB  | ##### 100%
```

4. 查看 python 版本

```
# Conda environments:
#
base          * D:\anzhuang\an
langu         D:\anzhuang\an\envs\langu
langu1        D:\anzhuang\an\envs\langu1

(base) 14332@000 风 00000000 MINGW64 ~$ conda activate
(base) 14332@000 风 00000000 MINGW64 ~$ conda activate langu
(langu) 14332@000 风 00000000 MINGW64 ~$ which python
/d/anzhuang/an/envs/langu/python
(langu) 14332@000 风 00000000 MINGW64 ~$ python --version
Python 3.12.9
(langu) 14332@000 风 00000000 MINGW64 ~$
```

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

```
(langu1) 14332@000 风 00000000 MINGW64 ~$ conda list
# packages in environment at D:\anzhuang\an\envs\langu1:
#
# 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
statsmodels                 0.14.4                       py39h827c3e9_0
tbb                         2021.8.0                     h59b6b97_0
tzdata                      2025a                        h04d1e81_0
vc                          14.42                       haa95532_4
vs2015_runtime              14.42.34433                  he0abc0d_4
wheel                       0.45.1                       py39haa95532_0
(langu1) 14332@000 风 00000000 MINGW64 ~$ conda activate langu
```

part3-Conda-Forge 清华镜像

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

```
(langu) 14332@0000 风 00000000 MINGW64 ~$ conda install ipython
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done
```

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

```
environment location: D:\anzhuang\an\envs\langu
```

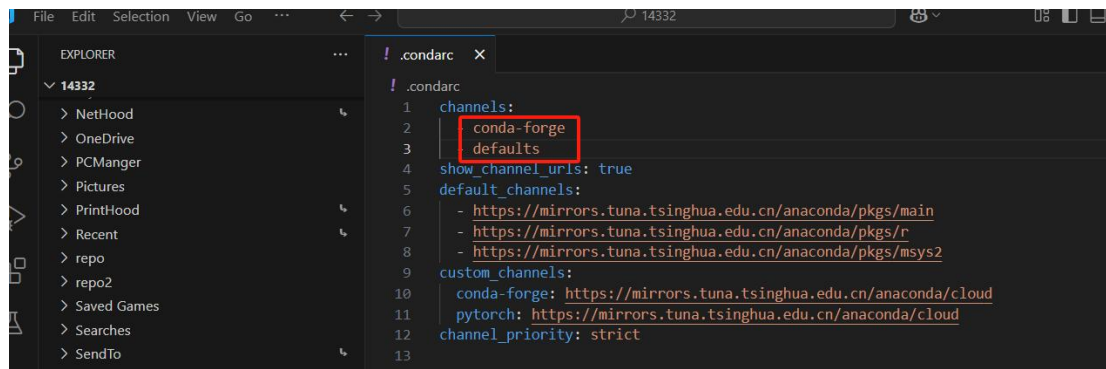
```
added / updated specs:
- ipython
```

```
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
matplotlib-inline-0.1.6	py312haa95532_0	19 KB
parso-0.8.4	py312haa95532_0	239 KB
prompt-toolkit-3.0.43	py312haa95532_0	733 KB
prompt_toolkit-3.0.43	hd3eb1b0_0	5 KB
pure_eval-0.2.2	pyhd3eb1b0_0	14 KB
pygments-2.15.1	py312haa95532_1	1.8 MB
stack_data-0.2.0	pyhd3eb1b0_0	22 KB

done

2. 更换下载路径



part4-环境配置的导出与重建

1. 下载 tushare

threadpoolctl	3.5.0	py312hfc267ef_0	https://repo.anaconda.com/pkgs/main
three-merge	0.1.1	pyhd3eb1b0_0	https://repo.anaconda.com/pkgs/main
tiffiofile	2023.4.12	py312haa95532_0	https://repo.anaconda.com/pkgs/main
tinycss2	1.2.1	py312haa95532_0	https://repo.anaconda.com/pkgs/main
tk	8.6.14	h0416ee5_0	https://repo.anaconda.com/pkgs/main
tlxextract	5.1.2	py312haa95532_0	https://repo.anaconda.com/pkgs/main
toml	0.10.2	pyhd3eb1b0_0	https://repo.anaconda.com/pkgs/main
tomli	2.0.1	py312haa95532_1	https://repo.anaconda.com/pkgs/main
tomlkit	0.11.1	py312haa95532_0	https://repo.anaconda.com/pkgs/main
toolz	0.12.0	py312haa95532_0	https://repo.anaconda.com/pkgs/main
tornado	6.4.1	py312h827c3e9_0	https://repo.anaconda.com/pkgs/main
tqdm	4.66.5	py312hfc267ef_0	https://repo.anaconda.com/pkgs/main
traitlets	5.14.3	py312haa95532_0	https://repo.anaconda.com/pkgs/main
truststore	0.8.0	py312haa95532_0	https://repo.anaconda.com/pkgs/main
tushare	1.4.19	py312haa95532_0	https://repo.anaconda.com/pkgs/main
twisted	23.10.0	py312h2bbff1b_0	https://repo.anaconda.com/pkgs/main
twisted-iocpsupport	1.0.2	py312h2bbff1b_0	https://repo.anaconda.com/pkgs/main
typing-extensions	4.11.0	py312haa95532_0	https://repo.anaconda.com/pkgs/main
typing_extensions	4.11.0	py312haa95532_0	https://repo.anaconda.com/pkgs/main
tzdata	2024b	h04d1e81_0	https://repo.anaconda.com/pkgs/main
uc-micro-py	1.0.1	py312haa95532_0	https://repo.anaconda.com/pkgs/main
ujson	5.10.0	py312h5da7b33_0	https://repo.anaconda.com/pkgs/main
unicodedata2	15.1.0	py312h2bbff1b_0	https://repo.anaconda.com/pkgs/main
unidecode	1.3.8	py312haa95532_0	https://repo.anaconda.com/pkgs/main
urllib3	2.2.3	py312haa95532_0	https://repo.anaconda.com/pkgs/main
utf8proc	2.6.1	h2bbff1b_1	https://repo.anaconda.com/pkgs/main
vc	14.40	h2eaa2aa_1	https://repo.anaconda.com/pkgs/main
vs2015_runtime	14.40.33807	h98bb1dd_1	https://repo.anaconda.com/pkgs/main
w3lib	2.1.2	py312haa95532_0	https://repo.anaconda.com/pkgs/main

2. 导出 environment.yml Conda 环境配置文件

```

1 name: base
2 channels:
3   - conda-forge
4   - defaults
5   - https://repo.anaconda.com/pkgs/main
6   - https://repo.anaconda.com/pkgs/r
7   - https://repo.anaconda.com/pkgs/msys2
8 dependencies:
9   - _anaconda_depends=2024.10=py312_mkl_0
10  - aiobotocore=2.12.3=py312haa95532_0
11  - aiohappyeyeballs=2.4.0=py312haa95532_0
12  - aiohttp=3.10.5=py312h827c3e9_0
13  - aioitertools=0.7.1=pyhd3eb1b0_0
14  - aiosignal=1.2.0=pyhd3eb1b0_0
15  - alabaster=0.7.16=py312haa95532_0
16  - altair=5.0.1=py312haa95532_0
17  - anaconda-anon-usage=0.4.4=py312hfc23b7f_100
18  - anaconda-catalogs=0.2.0=py312haa95532_1
19  - anaconda-client=1.12.3=py312haa95532_0
20  - anaconda-cloud-auth=0.5.1=py312haa95532_0
21  - anaconda-navigator=2.6.3=py312haa95532_0
22  - anaconda-project=0.11.1=py312haa95532_0
23  - anaconda-powershell-prompt=1.1.0=haa95532_0
24  - anaconda-prompt=1.1.0=haa95532_0
25  - annotated-types=0.6.0=py312haa95532_0
26  - anyio=4.2.0=py312haa95532_0
27  - aom=3.6.0=hd77b12b_0
28  - appdirs=1.4.4=pyhd3eb1b0_0
29  - archspec=0.2.3=pyhd3eb1b0_0
30  - argon2-cffi=21.3.0=pyhd3eb1b0_0
31  - argon2-cffi-bindings=21.2.0=py312h2bbff1b_0
32  - arrow=1.2.3=py312haa95532_1
33  - arrow-cpp=16.1.0=h7cd61ee_0
34  - astroid=2.14.2=py312haa95532_0
35  - astropy=6.1.3=py312h827c3e9_0
36  - astropy-iers-data=0.2024.9.2.0.33.23=py312haa95532_0
  
```

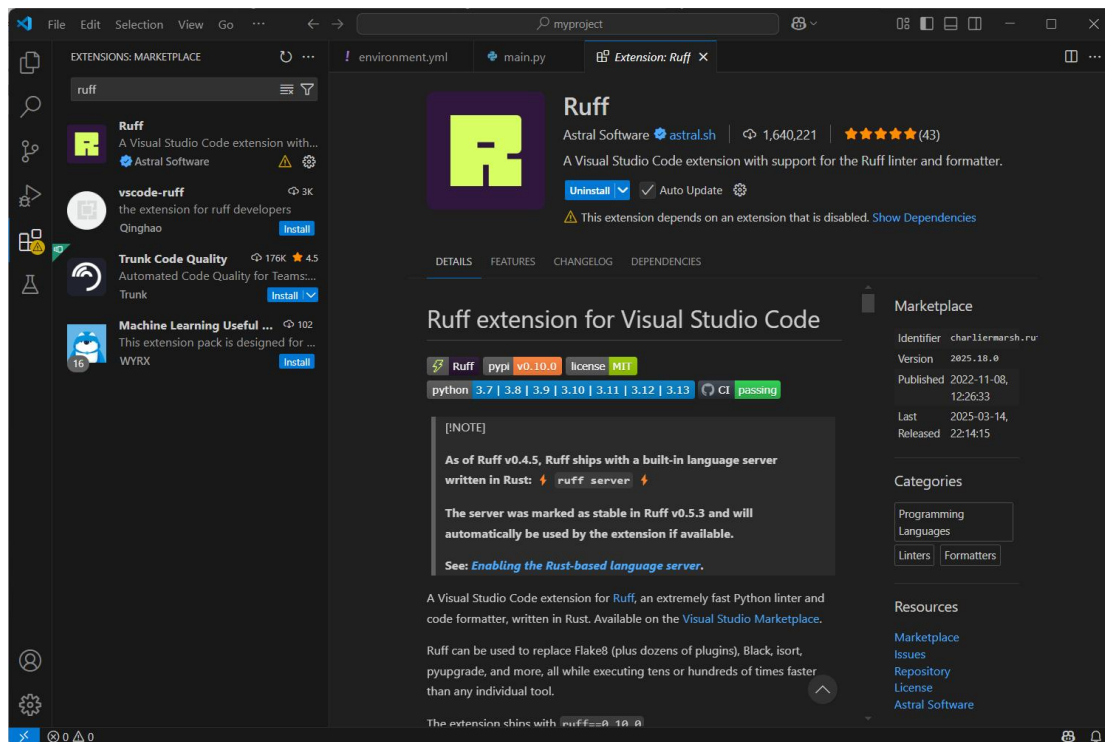
part5-编写和运行 Python 程序

1. 写入磁盘

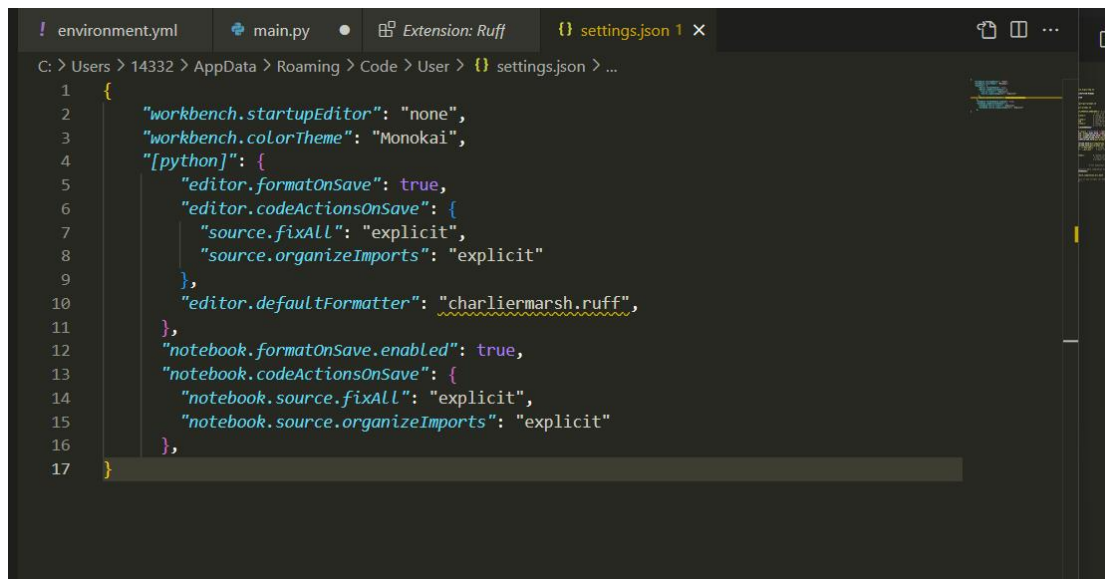
```

drwxr-xr-x 1 14332 197609 0  3月 18 22:51 week02/
(base) 14332@ooo泐 oooooooo MINGW64 ~/repo$ cat environment.yml
cat: environment.yml: No such file or directory
(base) 14332@ooo泐 oooooooo MINGW64 ~/repo$ cd myproject
(base) 14332@ooo泐 oooooooo MINGW64 ~/repo/myproject$ cat environment.yml
name: myproject
channels:
- conda-forge
dependencies:
- python3.12(base) 14332@ooo泐 oooooooo MINGW64 ~/repo/myproject$
  
```

2. 安装 ruff



3. 配置 ruff



4. 从



5. 下载

```
命令提示符
AttributeError: module 'pandas' has no attribute '_version_'. Did you mean: '__version__'?
(base) 14332@MINGW64 ~/repo/myproject$ python main.py
Hello, conda!
2.2.2
D:\anzhuang\an\Lib\site-packages\pandas\_init_.py
(base) 14332@MINGW64 ~/repo/myproject$ curl -O https://edg.epa.gov/EPADDataCommons/public/OA/EPA_SmartLocat
ionDatabase_V3_Jan_2021_Final.csv
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
0 0 0 0 0 0 0 0:00:10 0:00:10 0:00:00 0curl: (6) Could not resolve host: edg.epa.
gov
(base) 14332@MINGW64 ~/repo/myproject$ curl -O https://edg.epa.gov/EPADDataCommons/public/OA/EPA_SmartLocat
ionDatabase_V3_Jan_2021_Final.csv
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
32 192M 32 62.7M 0 0 31532 0 1:46:32 0:34:45 1:11:47 0
curl: (56) Recv failure: Connection was reset
(base) 14332@MINGW64 ~/repo/myproject$ curl -O https://edg.epa.gov/EPADDataCommons/public/OA/EPA_SmartLocat
ionDatabase_V3_Jan_2021_Final.csv
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
3 192M 3 7600k 0 0 10927 0 5:07:26 0:11:52 4:55:34 0
curl: (56) Recv failure: Connection was reset
(base) 14332@MINGW64 ~/repo/myproject$ curl -O https://edg.epa.gov/EPADDataCommons/public/OA/EPA_SmartLocat
ionDatabase_V3_Jan_2021_Final.csv
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 192M 100 192M 0 0 35595 0 1:34:22 1:34:22 0:00:00 59590
(base) 14332@MINGW64 ~/repo/myproject$
```