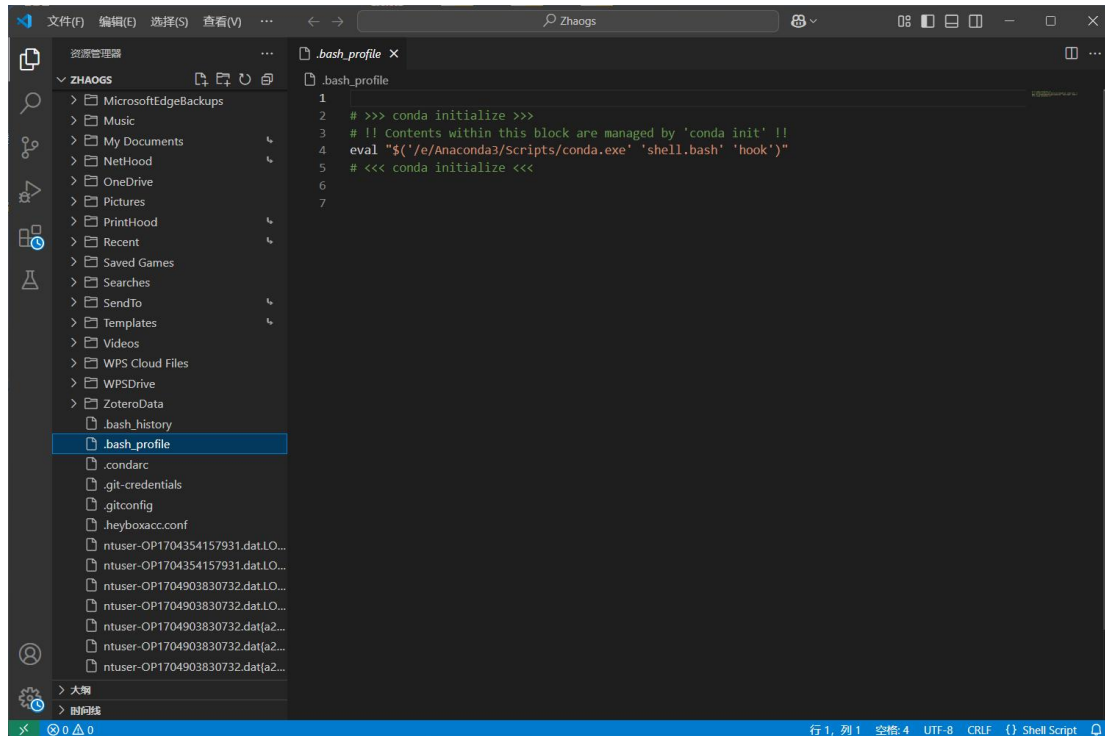


### Week3 学习内容:

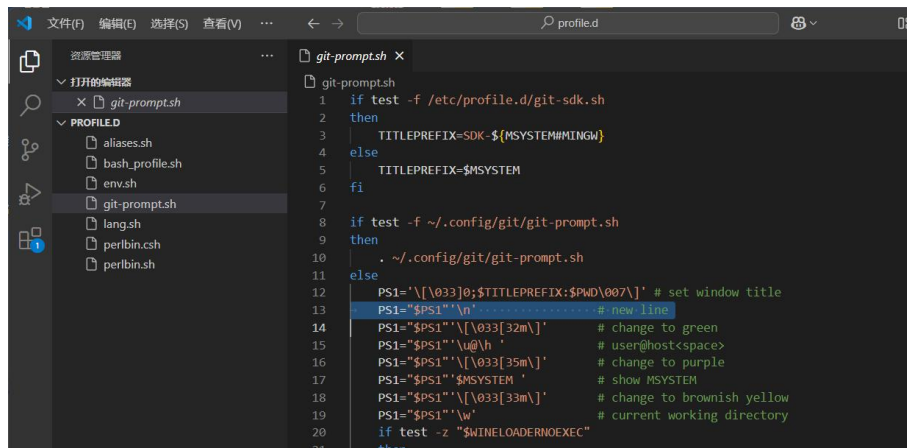
- 1.成功在 git bash 配置好 Conda Init, 启动终端后, 在提示符前能够看到 (base)

```
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$
```

code . 在 vs code 中查看 .bash\_profile 文件



根据操作, 找到第 13 行, 在前面加#键



成功使得 (base) 出现在前面且为一行

```
(base) Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$
```

- 2.使用 conda info 命令查看本机 conda 的配置信息

```
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda info

      active environment : base
      active env location : E:\Anaconda3
            shell level   : 1
      user config file    : C:\Users\Zhaogs\.condarc
      populated config files : C:\Users\Zhaogs\.condarc
      conda version       : 4.10.3
      conda-build version : 3.21.6
      python version      : 3.9.7.final.0
      virtual packages     : __win=0=0
                           __archspec=1=x86_64
      base environment    : E:\Anaconda3 (writable)
      conda av data dir   : E:\Anaconda3\etc\conda
      conda av metadata url : None
      channel URLs        : https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main/win-64
                           https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main/noarch
                           https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/r/win-64
                           https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/r/noarch
```

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

```
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda env list
# conda environments:
#
base                                * E:\Anaconda3
```

### 理解 Conda 环境 的概念

Conda 环境是什么

Conda环境是Anaconda或Miniconda发行版中用于隔离不同项目所需软件包和依赖项的一种机制。它允许用户创建、管理和使用独立的运行环境，每个环境可以拥有自己的Python版本和库集合，从而避免了不同项目之间由于依赖关系冲突导致的问题。

**Conda环境的主要特点**

- 隔离性：**每个Conda环境都是相互独立的，这意味着在一个环境中安装或更新软件包不会影响到其他环境。这对于同时处理多个项目且这些项目需要不同版本的Python或第三方库非常有用。
- 灵活性：**可以在不干扰全局Python设置的情况下创建新的环境，也可以根据需要激活不同的环境。这使得管理复杂依赖关系变得简单，尤其是在开发过程中。
- 可移植性：**可以通过导出环境配置文件（如 `environment.yml` ），轻松地在不同的机器上复制相同的环境设置，这对于团队协作特别有帮助。
- 多语言支持：**虽然Conda最初是为了Python设计的，但它也支持其他编程语言，如R、Ruby、Lua等，使得它成为一个跨语言的包管理系统。

**创建和管理Conda环境**

- 创建新环境：**

```
Bash
conda create --name myenv python=3.8
```

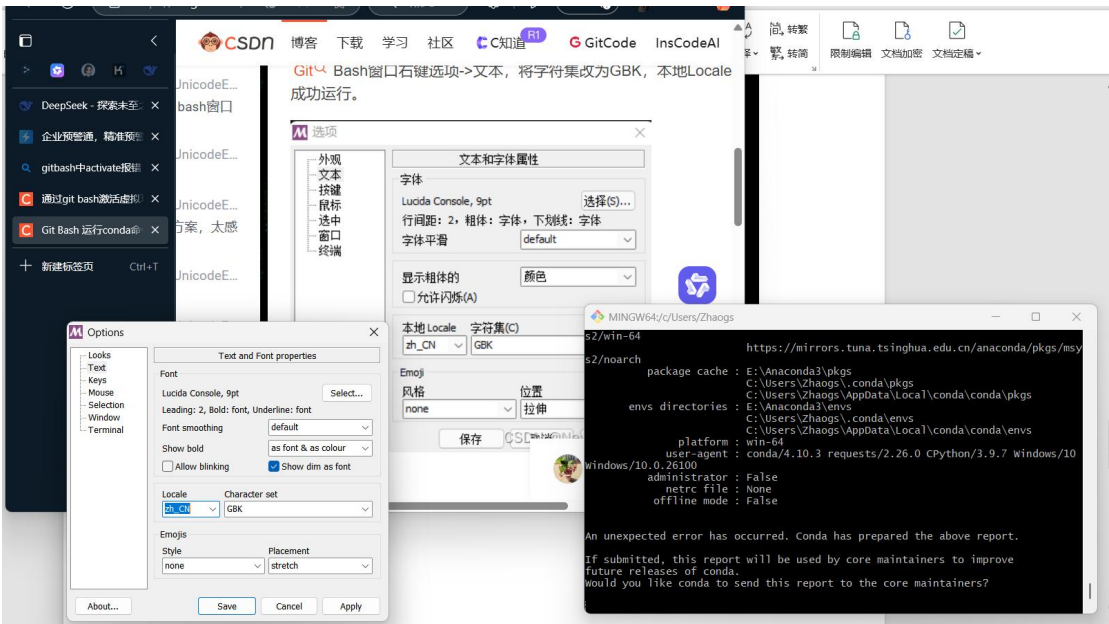
这个命令创建了一个名为 `myenv` 的新环境，并指定该环境使用Python 3.8版本。

- 激活环境：**

### 4.创建两个 Conda 环境



查询 CSDN 找到解决方法:



```
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda activate env1
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$
```

查询 python 版本:

```
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda activate env1
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ which python
/e/Anaconda3/envs/env1/python
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ python --version
Python 3.12.9
(env1)
Zhaogs@LAPTOP-MGC7R7G2 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.
>>> import requests
>>> requests
<module 'requests' from 'E:\\Anaconda3\\envs\\env1\\Lib\\site-packages\\requests\\__init__.py'>
>>> requests.__file__
'E:\\Anaconda3\\envs\\env1\\Lib\\site-packages\\requests\\__init__.py'
>>>
```

```
'E:\\Anaconda3\\envs\\env1\\Lib\\site-packages\\requests\\__init__.py'
>>> quit()
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda activate env2
(env2)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ which python
/e/Anaconda3/envs/env2/python
(env2)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ python --version
Python 3.9.21
(env2)
Zhaogs@LAPTOP-MGC7R7G2 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.__version__
'2.2.3'
>>> import statsmodels
```



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

```
>>> quit()
(env2)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda list
# packages in environment at E:\Anaconda3\envs\env2:
#
# Name                                Version                                Build                                Channel
blas                                  1.0                                    mkl                                  defaults
bottleneck                           1.4.2                                py39hc99e966_0                      defaults
ca-certificates                      2025.2.25                            haa95532_0                          defaults
icc_rt                               2022.1.0                             h6049295_2                          defaults
intel-openmp                         2023.1.0                             h59b6b97_46320                     defaults
mkl                                  2023.1.0                             h6b88ed4_46358                     defaults
mkl-service                          2.4.0                                py39h827c3e9_2                      defaults
mkl_fft                              1.3.11                              py39h827c3e9_0                      defaults
mkl_random                           1.2.8                                py39hc64d2fc_0                      defaults
numexpr                              2.10.1                              py39h4cd664f_0                      defaults
numpy                                 1.26.4                              py39h055cbcc_0                      defaults
numpy-base                           1.26.4                              py39h65a83cf_0                      defaults
openssl                              3.0.16                              h3f729d1_0                          defaults
packaging                            24.2                                py39haa95532_0                      defaults
pandas                               2.2.3                              py39h5da7b33_0                      defaults
patsy                                1.0.1                              py39haa95532_0                      defaults
pip                                  25.0                                py39haa95532_0                      defaults
pybind11-abi                         5                                    hd3eb1b0_0                          defaults
python                               3.9.21                              h8205438_1                          defaults
python-dateutil                      2.9.0post0                          py39haa95532_2                      defaults
python-tzdata                        2023.3                              pyhd3eb1b0_0                        defaults
pytz                                 2024.1                              py39haa95532_0                      defaults
scipy                                 1.13.1                              py39h8640f81_1                      defaults
setuptools                           75.8.0                              py39haa95532_0                      defaults
six                                  1.16.0                              pyhd3eb1b0_1                        defaults
sqlite                               3.45.3                              h2bbff1b_0                          defaults
statsmodels                          0.14.4                              py39h827c3e9_0                      defaults
tbb                                  2021.8.0                             h59b6b97_0                          defaults
tzdata                               2025a                               h04d1e81_0                          defaults
vc                                    14.42                              haa95532_4                          defaults
vs2015_runtime                       14.42.34433                         he0abc0d_4                          defaults
wheel                                0.45.1                              py39haa95532_0                      defaults
(env2)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$
```

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。

```
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda install ipython
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: E:\Anaconda3\envs\env1

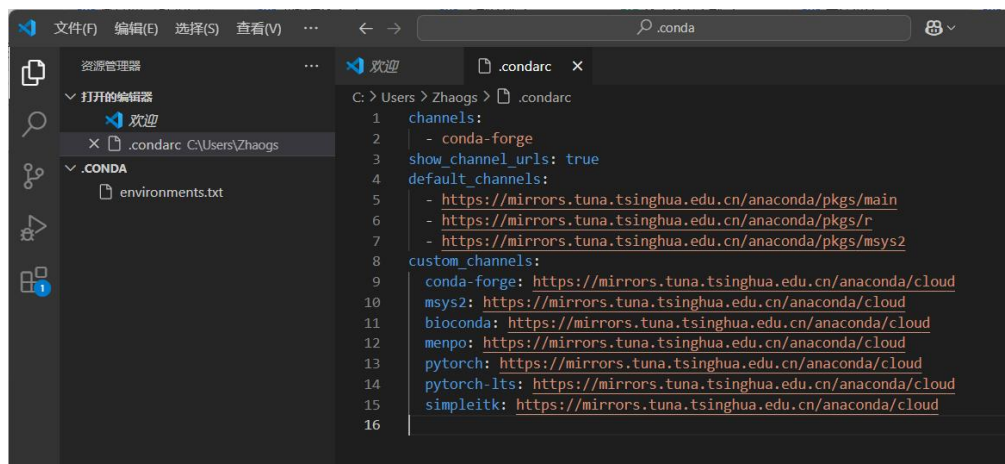
  added / updated specs:
    - ipython

The following packages will be downloaded:
```

package	build		
asttokens-2.0.5	pyhd3eb1b0_0	20 KB	defaults
colorama-0.4.6	py312haa95532_0	53 KB	defaults
decorator-5.1.1	pyhd3eb1b0_0	12 KB	defaults
executing-0.8.3	pyhd3eb1b0_0	18 KB	defaults
ipython-8.30.0	py312haa95532_0	1.5 MB	defaults
jedi-0.19.2	py312haa95532_0	1.2 MB	defaults
matplotlib-inline-0.1.6	py312haa95532_0	19 KB	defaults
parso-0.8.4	py312haa95532_0	239 KB	defaults

charset-normalizer	3.3.2	pyhd3eb1b0_0	defaults
colorama	0.4.6	py312haa95532_0	defaults
decorator	5.1.1	pyhd3eb1b0_0	defaults
executing	0.8.3	pyhd3eb1b0_0	defaults
expat	2.6.4	h8ddb27b_0	defaults
idna	3.7	py312haa95532_0	defaults
ipython	8.30.0	py312haa95532_0	defaults
jedi	0.19.2	py312haa95532_0	defaults
libffi	3.4.4	hd77b12b_1	defaults
matplotlib-inline	0.1.6	py312haa95532_0	defaults
openssl	3.0.16	h3f729d1_0	defaults
parso	0.8.4	py312haa95532_0	defaults
pip	25.0	py312haa95532_0	defaults
prompt-toolkit	3.0.43	py312haa95532_0	defaults
prompt_toolkit	3.0.43	hd3eb1b0_0	defaults
pure_eval	0.2.2	pyhd3eb1b0_0	defaults
pygments	2.15.1	py312haa95532_1	defaults
pysocks	1.7.1	py312haa95532_0	defaults
python	3.12.9	h14ffc60_0	defaults
requests	2.32.3	py312haa95532_1	defaults
setuptools	75.8.0	py312haa95532_0	defaults
six	1.16.0	pyhd3eb1b0_1	defaults
sqlite	3.45.3	h2bbff1b_0	defaults
stack_data	0.2.0	pyhd3eb1b0_0	defaults
tk	8.6.14	h0416ee5_0	defaults
traitlets	5.14.3	py312haa95532_0	defaults

7.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。



liblzma	5.6.4	h2466b09_0	conda-forge
libsqlite	3.49.1	h67fdade_2	conda-forge
libzlib	1.3.1	h2466b09_2	conda-forge
matplotlib-inline	0.1.6	py312haa95532_0	defaults
mkl	2020.4	hb70f87d_311	conda-forge
numpy	2.2.4	py312h3150e54_0	conda-forge
openssl	3.4.1	ha4e3fda_0	conda-forge
packaging	24.2	pyhd8ed1ab_2	conda-forge
parso	0.8.4	py312haa95532_0	defaults
pip	25.0	py312haa95532_0	defaults
polars	1.24.0	pypi_0	pypi
prompt-toolkit	3.0.43	py312haa95532_0	defaults
prompt_toolkit	3.0.43	hd3eb1b0_0	defaults
pure_eval	0.2.2	pyhd3eb1b0_0	defaults
pygments	2.15.1	py312haa95532_1	defaults
pysocks	1.7.1	py312haa95532_0	defaults
python	3.12.9	h3f84c4b_1_cpython	conda-forge
python_abi	3.12	5_cp312	conda-forge
requests	2.32.3	py312haa95532_1	defaults
setuptools	75.8.0	py312haa95532_0	defaults
six	1.16.0	pyhd3eb1b0_1	defaults
sqlite	3.45.3	h2bbff1b_0	defaults
stack_data	0.2.0	pyhd3eb1b0_0	defaults
tk	8.6.13	h5226925_1	conda-forge
traitlets	5.14.3	py312haa95532_0	defaults
tzdata	2025a	h04d1e81_0	defaults



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

pygments	2.15.1	py312haa95532_1	defaults
pysocks	1.7.1	py312haa95532_0	defaults
python	3.12.9	h3f84c4b_1_cpython	conda-forge
python-dateutil	2.9.0.post0	pypi_0	pypi
python_abi	3.12	5_cp312	conda-forge
pytz	2025.1	pypi_0	pypi
requests	2.32.3	py312haa95532_1	defaults
setuptools	75.8.0	py312haa95532_0	defaults
simplejson	3.20.1	pypi_0	pypi
six	1.16.0	pyhd3eb1b0_1	defaults
soupsieve	2.6	pypi_0	pypi
sqlite	3.45.3	h2bbff1b_0	defaults
stack_data	0.2.0	pyhd3eb1b0_0	defaults
tk	8.6.13	h5226925_1	conda-forge
tqdm	4.67.1	pypi_0	pypi
traitlets	5.14.3	py312haa95532_0	defaults
tushare	1.4.19	pypi_0	pypi
typing-extensions	4.12.2	pypi_0	pypi
tzdata	2025.1	pypi_0	pypi
ucrt	10.0.22621.0	h57928b3_1	conda-forge
urllib3	2.3.0	py312haa95532_0	defaults
vc	14.42	haa95532_4	defaults
vc14_runtime	14.42.34438	hfd919c2_24	conda-forge
vs2015_runtime	14.42.34438	h7142326_24	conda-forge
wcwidth	0.2.5	pyhd3eb1b0_0	defaults
websocket-client	1.8.0	pypi_0	pypi

9. 配置 PyPI 清华镜像，加快 `pip install` 安装软件包的速度。

```
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ python -m pip install --upgrade pip
Looking in indexes: https://pypi.tuna.tsinghua.edu.cn/simple
Requirement already satisfied: pip in e:\anaconda3\envs\env1\lib\site-packages (25.0)
Collecting pip
  Downloading https://pypi.tuna.tsinghua.edu.cn/packages/c9/bc/b7db44f5f39f9d0494071b
  ddae6880eb645970366d0a200022a1a93d57f5/pip-25.0.1-py3-none-any.whl (1.8 MB)
    ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━
  1.8/1.8 MB 4.8 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
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/sim
le
Writing to C:\Users\Zhaogs\AppData\Roaming\pip\pip.ini
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$
```

10. 导出 `environment.yml` Conda 环境配置文件

```
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda env export -f environment.yml
(env1)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$
```

删除 Conda 环境

```
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda env remove -n env1

Remove all packages in environment E:\Anaconda3\envs\env1:

(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
```

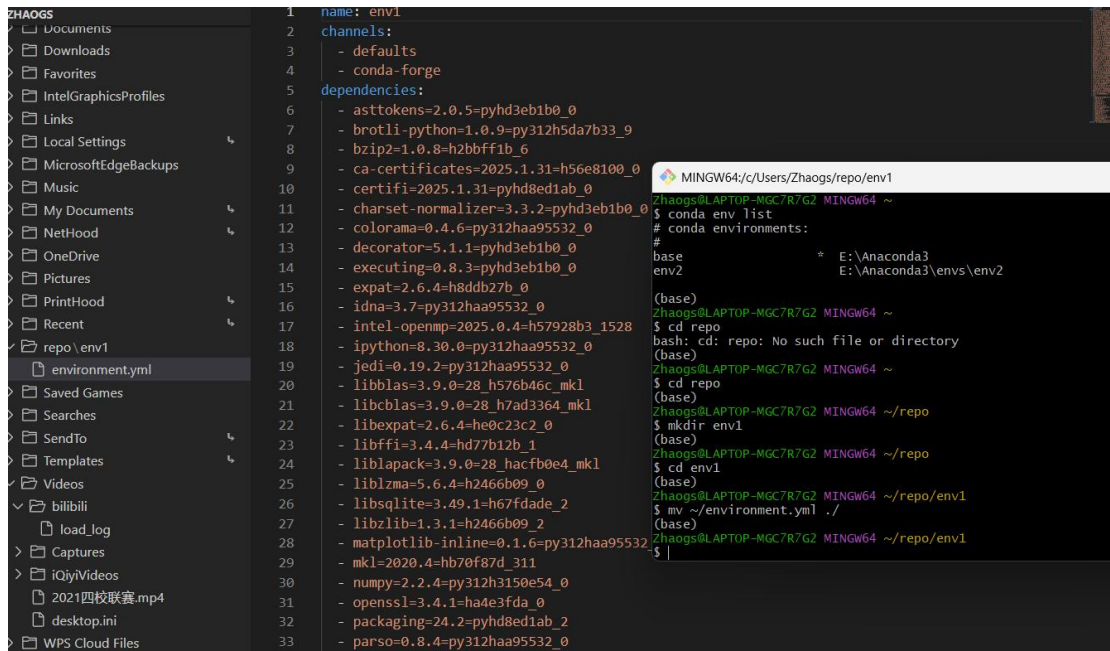
```

Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda env list
# conda environments:
#
base                  *  E:\Anaconda3
env2                  E:\Anaconda3\envs\env2

(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~

```

用 environment.yml 配置文件重建 Conda 环境



```

1 name: env1
2 channels:
3   - defaults
4   - conda-forge
5 dependencies:
6   - asttokens=2.0.5=pyhd3eb1b0_0
7   - brotli-python=1.0.9=py312h5da7b33_9
8   - bzip2=1.0.8=h2bbff1b_6
9   - ca-certificates=2025.1.31=h56e8100_0
10  - certifi=2025.1.31=pyhd8ed1ab_0
11  - charset-normalizer=3.3.2=pyhd3eb1b0_0
12  - colorama=0.4.6=py312haa95532_0
13  - decorator=5.1.1=pyhd3eb1b0_0
14  - executing=0.8.3=pyhd3eb1b0_0
15  - expat=2.6.4=h8ddb27b_0
16  - idna=3.7=py312haa95532_0
17  - intel-openmp=2025.0.4=h57928b3_1528
18  - ipython=8.30.0=py312haa95532_0
19  - jedi=0.19.2=py312haa95532_0
20  - libblas=3.9.0=28_h576b46c_mkl
21  - libcbblas=3.9.0=28_h7ad3364_mkl
22  - libexpat=2.6.4=he0c23c2_0
23  - libffi=3.4.4=hd77b12b_1
24  - liblapack=3.9.0=28_hacfb0e4_mkl
25  - liblzma=5.6.4=h2466b09_0
26  - libsqlite=3.49.1=h67fdade_2
27  - libzlib=1.3.1=h2466b09_2
28  - matplotlib-inline=0.1.6=py312haa95532_0
29  - mkl=2020.4=hb70f87d_311
30  - numpy=2.2.4=py312h3150e54_0
31  - openssl=3.4.1=ha4e3fda_0
32  - packaging=24.2=pyhd8ed1ab_2
33  - parso=0.8.4=py312haa95532_0

```

```

MINGW64:/c/Users/Zhaogs/repo/env1
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ conda env list
# conda environments:
#
base                  *  E:\Anaconda3
env2                  E:\Anaconda3\envs\env2

(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ cd repo
bash: cd: repo: No such file or directory
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~
$ cd repo
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo
$ mkdir env1
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo
$ cd env1
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/env1
$ mv ~/environment.yml ./
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/env1
$ |

```

```

5.0.1 polars-1.24.0 python-dateutil-2.9.0.post0 pytz-2025.1 simplejson-3.20.1 soupsieve-2.6 tqdm-4.67.1 tushare-1.4.19 typing-extensions-4.12.2 tzdata-2025.1 websocket-client-1.8.0

```

```

done
#
# To activate this environment, use
#
#     $ conda activate env1
#
# To deactivate an active environment, use
#
#     $ conda deactivate

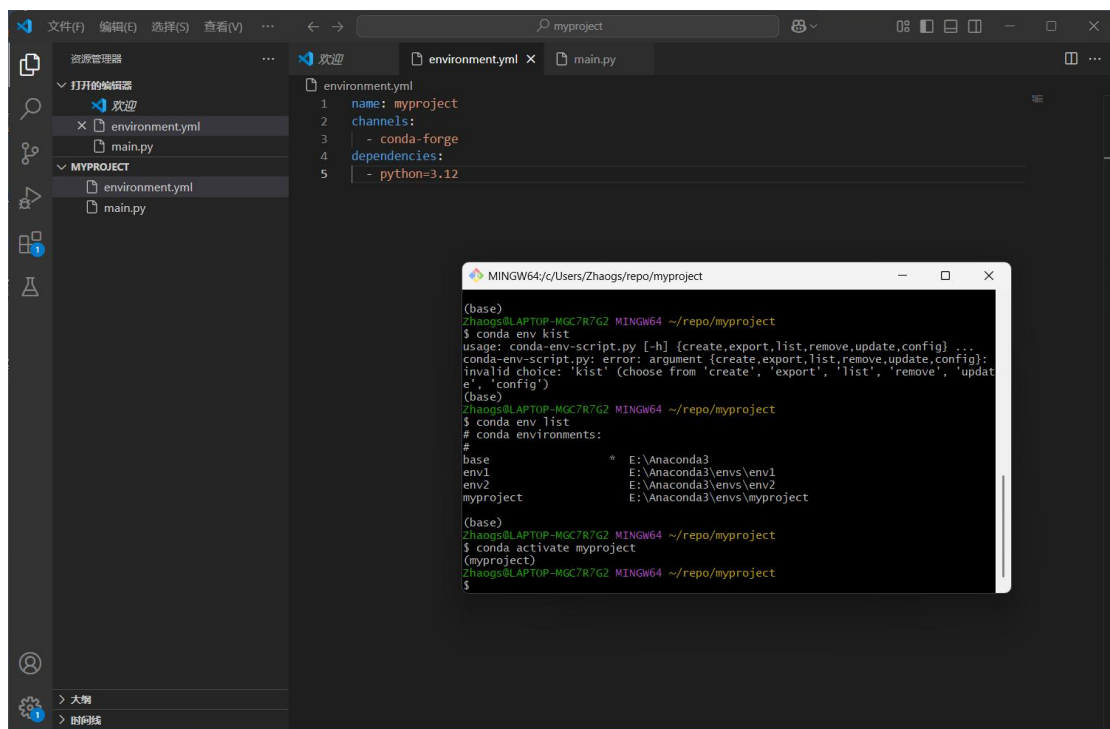
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/env1
$ conda env list
# conda environments:
#
base                  *  E:\Anaconda3
env1                  E:\Anaconda3\envs\env1
env2                  E:\Anaconda3\envs\env2

(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/env1
$ |

```

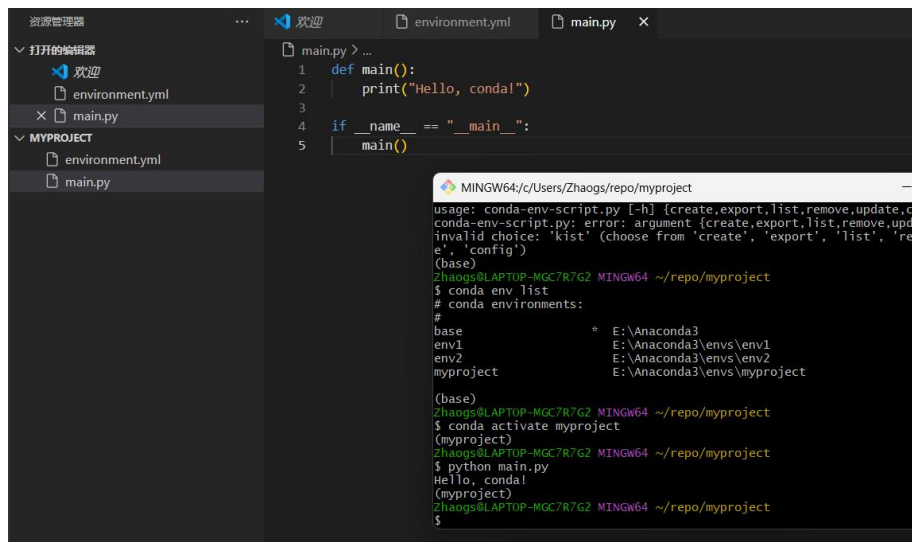
11. 创建项目目录, 在 VS Code 文本编辑器里安装一些支持 Python 开发的常用扩展, 编写 main.py 脚本, 创建该项目专用的 Conda 环境, 在终端里激活该环境并成功运行该脚本。





安装过一些拓展





The IDE shows a file named `main.py` with the following content:

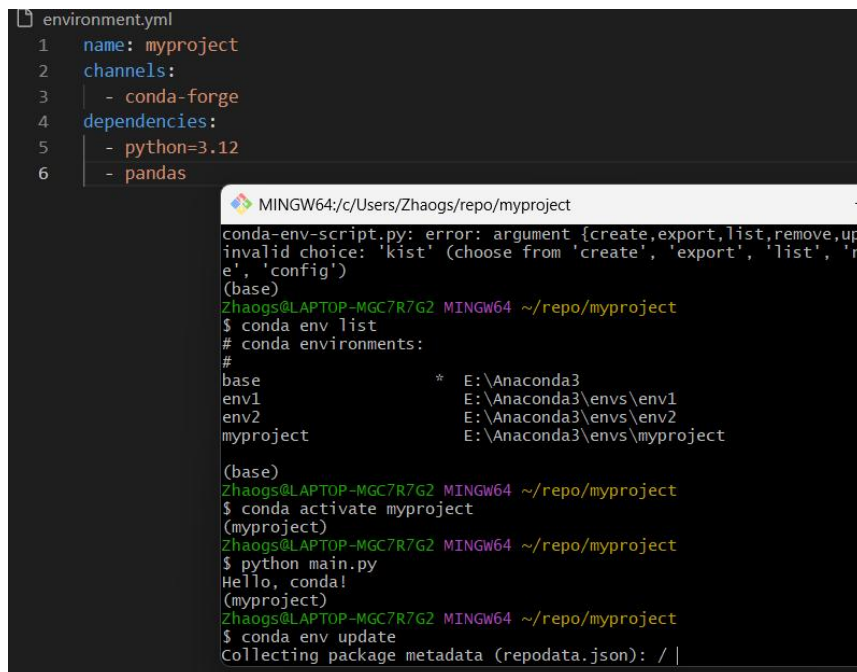
```
1 def main():
2     print("Hello, conda!")
3
4 if __name__ == "__main__":
5     main()
```

The terminal window shows the following commands and output:

```
usage: conda-env-script.py [-h] {create,export,list,remove,update,co
conda-env-script.py: error: argument {create,export,list,remove,upda
invalid choice: 'kist' (choose from 'create', 'export', 'list', 'rem
e', 'config')
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ conda env list
# conda environments:
#
base                  * E:\Anaconda3
env1                  E:\Anaconda3\envs\env1
env2                  E:\Anaconda3\envs\env2
myproject              E:\Anaconda3\envs\myproject

(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ conda activate myproject
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$
```

用 conda env update 更新环境配置



The IDE shows a file named `environment.yml` with the following content:

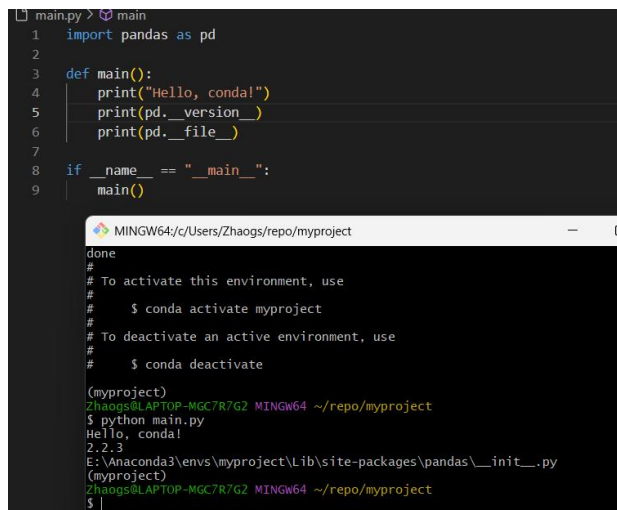
```
1 name: myproject
2 channels:
3     - conda-forge
4 dependencies:
5     - python=3.12
6     - pandas
```

The terminal window shows the following commands and output:

```
conda-env-script.py: error: argument {create,export,list,remove,upda
invalid choice: 'kist' (choose from 'create', 'export', 'list', 're
e', 'config')
(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ conda env list
# conda environments:
#
base                  * E:\Anaconda3
env1                  E:\Anaconda3\envs\env1
env2                  E:\Anaconda3\envs\env2
myproject              E:\Anaconda3\envs\myproject

(base)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ conda activate myproject
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ conda env update
Collecting package metadata (repodata.json): / |
```

增加 pandas 后:



The IDE shows a file named `main.py` with the following content:

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

The terminal window shows the following commands and output:

```
done
#
# To activate this environment, use
#
#     $ conda activate myproject
#
# To deactivate an active environment, use
#
#     $ conda deactivate
#
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
2.2.3
E:\Anaconda3\envs\myproject\Lib\site-packages\pandas\_init_.py
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$
```

破网也太慢了……不想下了这个校园网 30 分钟下不下来!

```
py", line 620, in _read
    parser = TextFileReader(filepath_or_buffer, **kws)
             ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "E:\Anaconda3\envs\myproject\Lib\site-packages\pandas\io\parsers\readers.py", line 1620, in __init__
    self._engine = self._make_engine(f, self.engine)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "E:\Anaconda3\envs\myproject\Lib\site-packages\pandas\io\parsers\readers.py", line 1880, in _make_engine
    self.handles = get_handle(
                   ^^^^^^^^^^
File "E:\Anaconda3\envs\myproject\Lib\site-packages\pandas\io\common.py", line 873, in get_handle
    handle = open(
             ^^^^^
FileNotFoundError: [Errno 2] No such file or directory: './EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv'
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ curl -O https://edg.epa.gov/EPADataCommons/public/OA/EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv
```

% Total	% Received	% Xferd	Average Speed Dload Upload	Time Total	Time Spent	Time Left	Current Speed
0 192M	0 1552k	0 0	4424 0	12:39:22	0:05:59	12:33:23	3491

下了一晚上！

```
py", line 1620, in _init_
    self._engine = self._make_engine(f, self.engine)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "E:\Anaconda3\envs\myproject\Lib\site-packages\pandas\io\parsers\readers.py", line 1880, in _make_engine
    self.handles = get_handle(
    ^^^^^^^^^^^^^
File "E:\Anaconda3\envs\myproject\Lib\site-packages\pandas\io\common.py", line 873, in get_handle
    handle = open(
    ^^^^^^
FileNotFoundError: [Errno 2] No such file or directory: './EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv'
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ curl -O https://edg.epa.gov/EPADataCommons/public/OA/EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv
% Total % Received % Xferd Average Speed Time Time Time Current
         Dload Upload Total Spent Left Speed
   3 192M   3 7728k    0     0   339      0  6d 21h  6:28:13  6d 14h    0
curl: (56) Recv failure: Connection was reset
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ |
```

运行 `python main.py`

```
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$ python main.py
7.01% of U.S. residents live in highlywalkable neighborhoods.
(myproject)
Zhaogs@LAPTOP-MGC7R7G2 MINGW64 ~/repo/myproject
$
```