

第三周学习报告

1. 终端配置 conda init

```
MINGW64/c/Users/86153 x + v

86153@DESKTOP-CS5HNR1 MINGW64 ~
$ which conda
/c/Users/86153/anaconda3/Scripts/conda

86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda
usage: conda-script.py [-h] [-v] [--no-plugins] [-V] COMMAND ...

conda is a tool for managing and deploying applications, environments and packages.

options:
  -h, --help            Show this help message and exit.
  -v, --verbose          Can be used multiple times. Once for detailed output, twice for INFO level
                        logging, four times for TRACE logging.
  --no-plugins          Disable all plugins that are not built into conda.
  -V, --version          Show the conda version number and exit.

commands:
  The following built-in and plugins subcommands are available.

COMMAND
  activate              Activate a conda environment.
  build                 Build conda packages from a conda recipe.
  clean                 Remove unused packages and caches.
  commands              List all available conda subcommands (including those from plugins). Get
                        tab-completion.
  compare               Compare packages between conda environments.
  config                Modify configuration values in .condarc.
  content-trust          Signing and verification tools for Conda
```

```
MINGW64/c/Users/86153 x + v

This command makes changes to your system that are specific and customized for each user.
To see the specific files and locations on your system that will be affected before running, use
the '--dry-run' flag. To see the exact changes that are being or will be made to your
location, use the '--verbose' flag.

IMPORTANT: After running 'conda init', most shells will need to be closed and reopened for
changes to take effect.

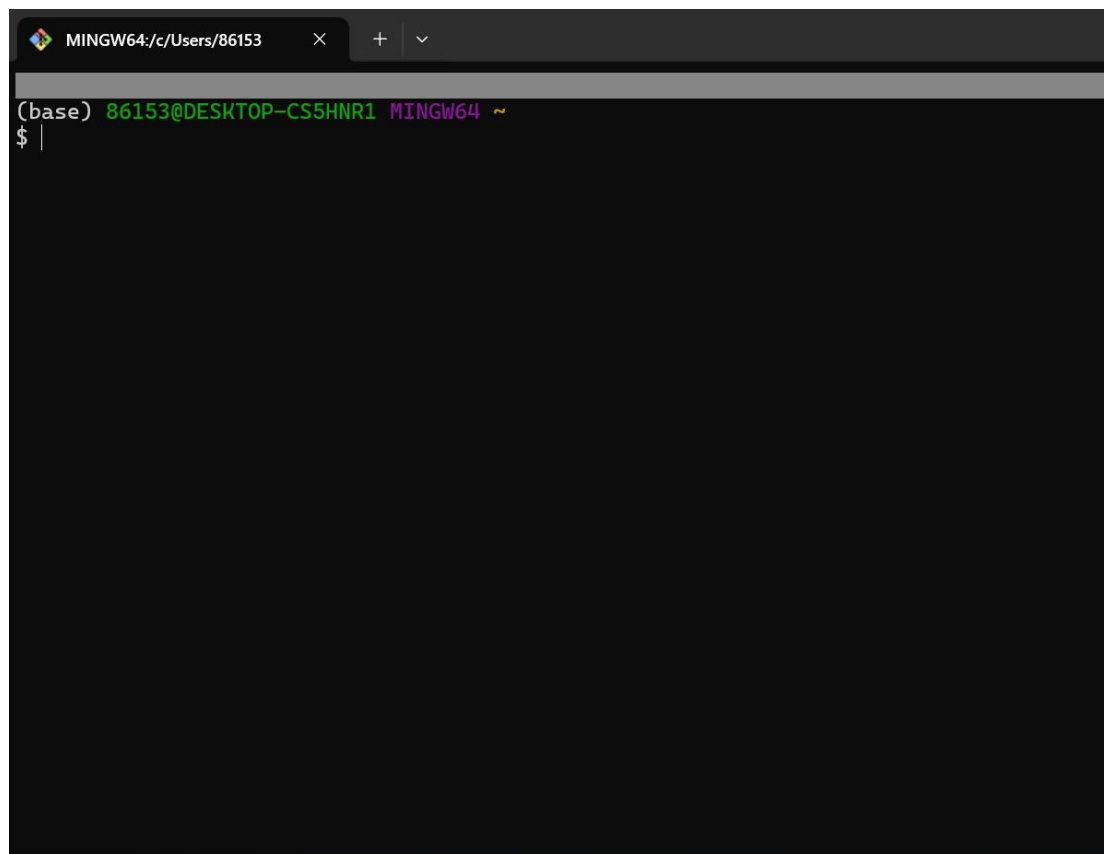
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda init bash
no change      C:\Users\86153\anaconda3\Scripts\conda.exe
no change      C:\Users\86153\anaconda3\Scripts\conda-env.exe
no change      C:\Users\86153\anaconda3\Scripts\conda-script.py
no change      C:\Users\86153\anaconda3\Scripts\conda-env-script.py
no change      C:\Users\86153\anaconda3\condabin\conda.bat
no change      C:\Users\86153\anaconda3\Library\bin\conda.bat
no change      C:\Users\86153\anaconda3\condabin\_conda_activate.bat
no change      C:\Users\86153\anaconda3\condabin\rename_tmp.bat
no change      C:\Users\86153\anaconda3\condabin\conda_auto_activate.bat
no change      C:\Users\86153\anaconda3\condabin\conda_hook.bat
no change      C:\Users\86153\anaconda3\Scripts\activate.bat
no change      C:\Users\86153\anaconda3\condabin\activate.bat
no change      C:\Users\86153\anaconda3\condabin\deactivate.bat
modified       C:\Users\86153\anaconda3\Scripts\activate
modified       C:\Users\86153\anaconda3\Scripts\deactivate
modified       C:\Users\86153\anaconda3\etc\profile.d\conda.sh
modified       C:\Users\86153\anaconda3\etc\fish\conf.d\conda.fish
no change      C:\Users\86153\anaconda3\shell\condabin\Conda.psm1
modified       C:\Users\86153\anaconda3\shell\condabin\conda-hook.ps1
```

```
$ code /c/Program Files/Git/etc/profile.d/
node:internal/modules/cjs/loader:1235
  throw err;
  ^

Error: Cannot find module 'C:\Users\86153\anaconda3\Library\c\Users\86153\AppData\Local\Pro
rces\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)
86153@DESKTOP-CS5HNR1 MINGW64 ~
```

完成初始化



2. 使用 conda info 查看配置

```
(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda info

      active environment : base
      active env location : C:\Users\86153\anaconda3
            shell level : 1
      user config file : C:\Users\86153\.condarc
populated config files : C:\Users\86153\anaconda3\.condarc
                        C:\Users\86153\.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=11.0=0
                        __win=0=0

      base environment : C:\Users\86153\anaconda3 (writable)
      conda av data dir : C:\Users\86153\anaconda3\etc\conda
      conda av metadata url : None
      channel URLs : https://repo.anaconda.com/pkg/main/win-64
                    https://repo.anaconda.com/pkg/main/noarch
                    https://repo.anaconda.com/pkg/r/win-64
                    https://repo.anaconda.com/pkg/r/noarch
                    https://repo.anaconda.com/pkg/msys2/win-64
                    https://repo.anaconda.com/pkg/msys2/noarch

      package cache : C:\Users\86153\anaconda3\pkgs
                     C:\Users\86153\.conda\pkgs
                     C:\Users\86153\AppData\Local\conda\conda\pkgs
```

3. 使用 conda env list 查看路径和环境

```
MINGW64:/c/Users/86153  x  +  v

      channel URLs : https://repo.anaconda.com/pkg/main/win-64
                    https://repo.anaconda.com/pkg/main/noarch
                    https://repo.anaconda.com/pkg/r/win-64
                    https://repo.anaconda.com/pkg/r/noarch
                    https://repo.anaconda.com/pkg/msys2/win-64
                    https://repo.anaconda.com/pkg/msys2/noarch

      package cache : C:\Users\86153\anaconda3\pkgs
                     C:\Users\86153\.conda\pkgs
                     C:\Users\86153\AppData\Local\conda\conda\pkgs

      envs directories : C:\Users\86153\anaconda3\envs
                       C:\Users\86153\.conda\envs
                       C:\Users\86153\AppData\Local\conda\conda\envs

      platform : win-64
      user-agent : conda/24.9.2 requests/2.32.3 CPython/3.12.7 Windows/11 W
a-libmamba-solver/24.9.0 libmambapy/1.5.8 aau/0.4.4 c/. s/. e/.
      administrator : False
      netrc file : None
      offline mode : False

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda env list
# conda environments:
#
base * C:\Users\86153\anaconda3

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ |
```

4. 使用 conda create 创建两个 conda 环境

```
MINGW64:/c/Users/86153
# To deactivate an active environment, use
#
# $ conda deactivate

(base) 86153@DESKTOP-CS5HNR1 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: C:\Users\86153\anaconda3\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 |

```
MINGW64:/c/Users/86153
/c/Users/86153/anaconda3/envs/prj2/python
(prj2)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ python --version
Python 3.9.21
(prj2)
86153@DESKTOP-CS5HNR1 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.__file__
'C:\Users\86153\anaconda3\envs\prj2\lib\site-packages\pandas\__init__.py'
>>> pandas.__version__
File "<stdin>", line 1
pandas.__version__
      ^
SyntaxError: invalid syntax
>>> pandas.__version__
File "<stdin>", line 1
pandas.__version__
      ^
IndentationError: unexpected indent
>>> import statsmodels
>>> statsmodels.__version__
'0.14.4'
>>> |
```

5. 使用 conda list 显示软件包列表和版本信息

```

86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda list
# packages in environment at C:\Users\86153\anaconda3\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

```

```

MINGW64/c/Users/86153  ×  +  ▾
(prj2)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda activate prj1
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda list
# packages in environment at C:\Users\86153\anaconda3\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                        h14ffc60_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

```

6. Conda install 安装更多软件包


```
MINGW64:/c/Users/86153
win_inet_pton      1.1.0      py312haa95532_0
xz                 5.6.4      h4754444_1
zlib               1.2.13     h8cc25b3_1
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda install ipython
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: C:\Users\86153\anaconda3\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 |

7. 根据文档，配置镜像

```
MINGW64:/c/Users/86153
colorama           pkgs/main/win-64::colorama-0.4.6-py312haa95532_0
decorator          pkgs/main/noarch::decorator-5.1.1-pyhd3eb1b0_0
executing          pkgs/main/noarch::executing-0.8.3-pyhd3eb1b0_0
ipython            pkgs/main/win-64::ipython-8.30.0-py312haa95532_0
jedi               pkgs/main/win-64::jedi-0.19.2-py312haa95532_0
matplotlib-inline  pkgs/main/win-64::matplotlib-inline-0.1.6-py312haa95532_0
done
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda config --set show_channel_urls yes
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda config --set show_channel_urls yes
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda clean -i
Will remove 1 index cache(s).
Proceed ([y]/n)? y
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda create -n myenv numpy
Channels:
- defaults
- 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): \ |
```

The screenshot shows the Visual Studio Code editor interface. On the left, the Explorer sidebar displays the file system of user 86153, with the `.condarc` file selected. The main editor area shows the content of `.condarc`:

```
! .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
```

The status bar at the bottom indicates the current position is Line 10, Column 63, with 2 spaces, UTF-8 encoding, and CRLF line endings.

The screenshot shows a MINGW64 terminal window with the following output:

```
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#   $ conda activate myenv
#
# To deactivate an active environment, use
#
#   $ conda deactivate

(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda config --set channel_priority strict
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda activate prj1
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda install polars
Channels:
- conda-forge
- defaults
- https://repo.anaconda.com/pkg/main
- https://repo.anaconda.com/pkg/r
- https://repo.anaconda.com/pkg/msys2
Platform: win-64
Collecting package metadata (repodata.json): / |
```

```
MINGW64:/c/Users/86153 x + v

Downloading and Extracting Packages:

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate myenv
#
# To deactivate an active environment, use
#
#     $ conda deactivate

(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda config --set channel_priority strict
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda activate prj1
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda install polars
Channels:
- conda-forge
- defaults
- https://repo.anaconda.com/pkgs/main
- https://repo.anaconda.com/pkgs/r
- https://repo.anaconda.com/pkgs/msys2

tk pkgs/main::tk-8.6.14-h0416ee5_0 --> conda-forge::tk-8.6.13-h5226925_1

done
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ which python
/c/Users/86153/anaconda3/envs/prj1/python
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ python
Python 3.12.9 | packaged by conda-forge | (main, Mar 4 2025, 22:37:18) [MSC v.1943 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import polars
>>> |
```

8. 使用 pip install 命令安装 python 软件包

```
MINGW64:/c/Users/86153 x + v

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ python -m pip install --upgrade pip
pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Requirement already satisfied: pip in c:\users\86153\anaconda3\lib\site-packages (24.2)
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 224.1 kB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 24.2
    Uninstalling pip-24.2:
      Successfully uninstalled pip-24.2
  Successfully installed pip-25.0.1
Writing to C:\Users\86153\AppData\Roaming\pip\pip.ini

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ python -m pip install --upgrade pip
Looking in indexes: https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Requirement already satisfied: pip in c:\users\86153\anaconda3\lib\site-packages (25.0.1)

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Writing to C:\Users\86153\AppData\Roaming\pip\pip.ini

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ |
```


9. 根据文档，配置 pypi 镜像，加快速度

```
MINGW64:/c/Users/86153  x  +  v
Requirement already satisfied: pip in c:\users\86153\anaconda3\lib\site-packages (24.2)
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 224.1 kB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 24.2
    Uninstalling pip-24.2:
      Successfully uninstalled pip-24.2
Successfully installed pip-25.0.1
Writing to C:\Users\86153\AppData\Roaming\pip\pip.ini

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ python -m pip install --upgrade pip
Looking in indexes: https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Requirement already satisfied: pip in c:\users\86153\anaconda3\lib\site-packages (25.0.1)

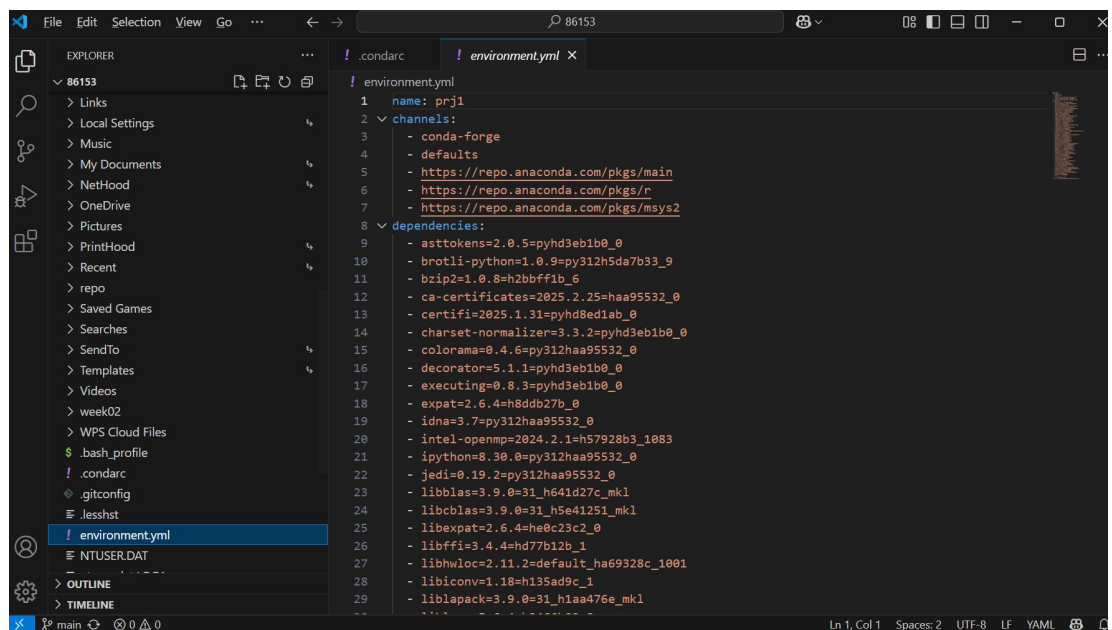
(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Writing to C:\Users\86153\AppData\Roaming\pip\pip.ini

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda activate prj1
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda list
# packages in environment at C:\Users\86153\anaconda3\envs\prj1:
#
# Name                               Version                               Build Channel
```

10. 导出环境配置文件

```
MINGW64:/c/Users/86153  x  +  v
xz                               5.6.4                               h4754444_1  https://repo.anaconda.com/pkgs/main
zlib                             1.3.1                               h2466b09_2  conda-forge
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda env export
name: prj1
channels:
- conda-forge
- defaults
- 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
- libblas=3.9.0=31_h641d27c_mkl
- libcbblas=3.9.0=31_h5e41251_mkl
- libexpat=2.6.4=he0c23c2_0
```

```
MINGW64/c/Users/86153
- polars==1.24.0
prefix: C:\Users\86153\anaconda3\envs\prj1
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ pwd
/c/Users/86153
(prj1)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ ls -l
total 42881
lrwxrwxrwx 1 86153 197609      59  1月 26 11:16 「开始」菜单 -> '/c/Users/86153/AppData/Roaming/Microsoft/W
t Menu'/
drwxr-xr-x 1 86153 197609      0 10月 22  2020 '3D Objects'/
drwxr-xr-x 1 86153 197609      0 12月  2 12:58 ado/
drwxr-xr-x 1 86153 197609      0  3月 20 17:59 anaconda3/
drwxr-xr-x 1 86153 197609      0  4月 23  2023 ansel/
drwxr-xr-x 1 86153 197609      0  1月 26 14:54 AppData/
lrwxrwxrwx 1 86153 197609    30  1月 26 11:16 'Application Data' -> /c/Users/86153/AppData/Roaming/
drwxr-xr-x 1 86153 197609      0  1月 26 15:05 Contacts/
lrwxrwxrwx 1 86153 197609    58  1月 26 11:16 Cookies -> /c/Users/86153/AppData/Local/Microsoft/Windows/I
drwxr-xr-x 1 86153 197609      0  3月 20 18:20 Desktop/
drwxr-xr-x 1 86153 197609      0  1月 26 15:05 Documents/
drwxr-xr-x 1 86153 197609      0  3月 15 22:24 Downloads/
drwxr-xr-x 1 86153 197609      0  1月 26 15:05 Favorites/
drwxr-xr-x 1 86153 197609      0  3月 20 12:23 IntelGraphicsProfiles/
drwxr-xr-x 1 86153 197609      0  1月 26 15:05 Links/
lrwxrwxrwx 1 86153 197609    28  1月 26 11:16 'Local Settings' -> /c/Users/86153/AppData/Local/
drwxr-xr-x 1 86153 197609      0  1月 26 15:05 Music/
lrwxrwxrwx 1 86153 197609    24  1月 26 11:16 'My Documents' -> /c/Users/86153/Documents/
lrwxrwxrwx 1 86153 197609    66  1月 26 11:16 NetHood -> '/c/Users/86153/AppData/Roaming/Microsoft/Window
```



```
.condarc
! environment.yml
! environment.yml
1 name: prj1
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   - asttokens=2.0.5=pyhd3eb1b0_0
10  - brotli-python=1.0.9=py312h5da7633_9
11  - bzip2=1.0.8=h2bbff1b_6
12  - ca-certificates=2025.2.25=haa95532_0
13  - certifi=2025.1.31=pyhd8ed1ab_0
14  - charset-normalizer=3.3.2=pyhd3eb1b0_0
15  - colorama=0.4.6=py312haa95532_0
16  - decorator=5.1.1=pyhd3eb1b0_0
17  - executing=0.8.3=pyhd3eb1b0_0
18  - expat=2.6.4=h8ddb27b_0
19  - idna=3.7=py312haa95532_0
20  - intel-openmp=2024.2.1=h57928b3_1083
21  - ipython=8.30.0=py312haa95532_0
22  - jedi=0.19.2=py312haa95532_0
23  - libblas=3.9.0=31_h641d27c_mkl
24  - libcblas=3.9.0=31_h5e41251_mkl
25  - libexpat=2.6.4=he0c23c2_0
26  - libffi=3.4.4=hd77b12b_1
27  - libhwloc=2.11.2=default_ha69328c_1001
28  - libiconv=1.18=h135ad9c_1
29  - liblapack=3.9.0=31_h1aa476e_mkl
```

```
MINGW64: c:/Users/86153  x + v
prj2 C:\Users\86153\anaconda3\envs\prj2

(base)
86153@DESKTOP-CS5HNR1 MINGW64 ~
$ conda env remove -n prj1

Remove all packages in environment C:\Users\86153\anaconda3\envs\prj1:

## Package Plan ##

environment location: C:\Users\86153\anaconda3\envs\prj1

The following packages will be REMOVED:

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
```

```
MINGW64: c:/Users/86153/rep x + v
$ move ~/environment.yml ./
bash: move: command not found
(base)
86153@DESKTOP-CS5HNR1 MINGW64 ~/repo
$ code .
node:internal/modules/cjs/loader:1235
  throw err;
  ^
Error: Cannot find module 'C:\Users\86153\anaconda3\Library\c\Users\86153\AppData\Local\Programs\Microsoft VS
rces\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)
86153@DESKTOP-CS5HNR1 MINGW64 ~/repo
$ conda env list
# conda environments:
#
base * C:\Users\86153\anaconda3
myenv C:\Users\86153\anaconda3\envs\myenv
prj2 C:\Users\86153\anaconda3\envs\prj2
```

```
MINGW64:/c/Users/86153/rep x + v
$ mkdir prj1

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo
$ cd prj1

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ ls -l
total 0

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ mv ~/environment.yml ./

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ code .
node:internal/modules/cjs/loader:1235
  throw err;
  ^
Error: Cannot find module 'C:\Users\86153\anaconda3\Library\c\Users\86153\AppData\Local\Programs\Microsoft\WindowsApps\Microsoft.VisualStudio.Code-x64\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
```

```
MINGW64:/c/Users/86153/rep x + v

conda env create
conda env create -n envname
conda env create folder/envname
conda env create -f /path/to/environment.yml
conda env create -f /path/to/requirements.txt -n envname
conda env create -f /path/to/requirements.txt -p /home/user/envname

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ ls l
ls: cannot access 'l': No such file or directory

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ ls -l
total 4
-rw-r--r-- 1 86153 197609 2231  3月 20 20:06 environment.yml

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ conda env create
C:\Users\86153\anaconda3\Lib\argparse.py:2006: FutureWarning: 'remote_definition' is deprecated and will be removed in version 5.9. Use 'conda env create --file=URL' instead.
  action(self, namespace, argument_values, option_string)
Channels:
- conda-forge
- defaults
- 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): - |
```

11. 理解 conda,python 间关系

```
MINGW64/c/Users/86153/rep x + v
drwxr-xr-x 1 86153 197609 0 3月 16 13:28 week02/

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo
$ mkdir prj1

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo
$ cd prj1

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ ls -l
total 0

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ mv ~/environment.yml ./

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ code .
node:internal/modules/cjs/loader:1235
  throw err;
  ^

Error: Cannot find module 'C:\Users\86153\anaconda3\Library\c\Users\86153\AppData\Local\Programs\Microsoft VS
rces\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: []
}
```

```
MINGW64/c/Users/86153/rep x + v

node.js v20.18.2

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ pwd
/c/Users/86153/repo/prj1

(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ ls -l
total 4
-rw-r--r-- 1 86153 197609 2231 3月 20 20:06 environment.yml

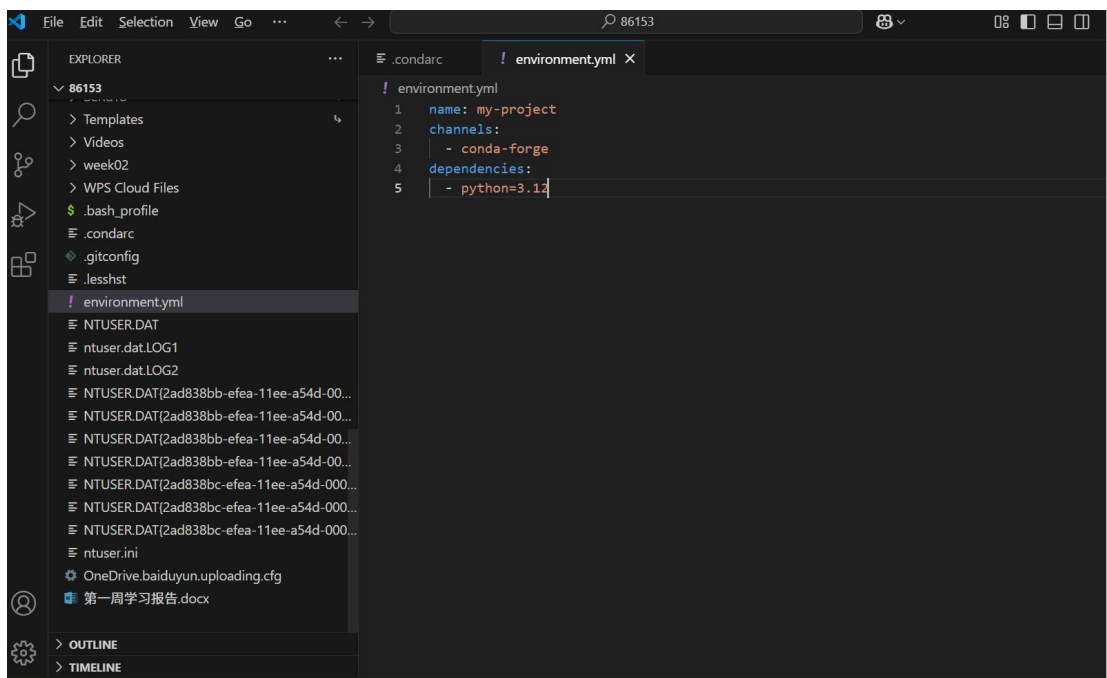
(base) 86153@DESKTOP-CS5HNR1 MINGW64 ~/repo/prj1
$ conda env create --help
usage: conda-script.py env create [-h] [-f FILE] [-n ENVIRONMENT | -p PATH] [-C] [-k] [--offline]
                                   [--no-default-packages] [--json] [-v] [-q] [-d] [-y] [--solver {classic,lib
                                   [--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
```

12. 创建项目目录



13. 第三周打卡

