


```
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda info

      active environment : base
      active env location : D:\XXX
            shell level : 1
      user config file : C:\Users\liwanying\.condarc
 populated config files : D:\XXX\.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=x86_64_v3
                  __conda=24.9.2=0
                  __win=0=0
    base environment : D:\XXX (writable)
    conda av data dir : D:\XXX\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 : D:\XXX\pkgs
                    C:\Users\liwanying\.conda\pkgs
                    C:\Users\liwanying\AppData\Local\conda\conda\pkgs
     envs directories : D:\XXX\envs
                    C:\Users\liwanying\.conda\envs
```

```
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda env list
# conda environments:
#
base                                     * D:\XXX

(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$
```

MINGW64:c/Users/liwanying

pysocks

python

requests

setuptools

sqlite

tk

tzdata

urllib3

vc

vs2015_runtime

wheel

win_inet_pton

xz

zlib

one

pkgs/main/win-64::pysocks

pkgs/main/win-64::python

pkgs/main/win-64::requests

pkgs/main/win-64::setuptools

pkgs/main/win-64::sqlite

pkgs/main/win-64::tk

pkgs/main/noarch::tzdata

pkgs/main/win-64::urllib3

pkgs/main/win-64::vc

pkgs/main/win-64::vs2015_runtime

pkgs/main/win-64::wheel

pkgs/main/win-64::win_inet_pton

pkgs/main/win-64::xz

pkgs/main/win-64::zlib

To activate this environment, use

\$ conda activate prj1

To deactivate an active environment, use

\$ conda deactivate

(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~

envs

← → ↑ ↺

此电脑 > Data (D:) > XXX > envs >

新建

✂

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↕ 排序

🔍 查看

⋮

▼ XXX

condabin

conda-meta

DLLs

> envs

> etc

> include

> Lib

> Library

libs

Menu

> pkgs

名称	修改日期	类型
prj1	2025/3/23 17:20	文件夹
.conda_envs_dir_test	2025/3/23 17:17	CON

```
(base) liwanying@LAPTOP-4E3DBRB1 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:\XXX\envs\prj2

added / updated specs:
- pandas
- python=3.9
- statsmodels

The following packages will be downloaded:
```

package	build
blas-1.0	mkl

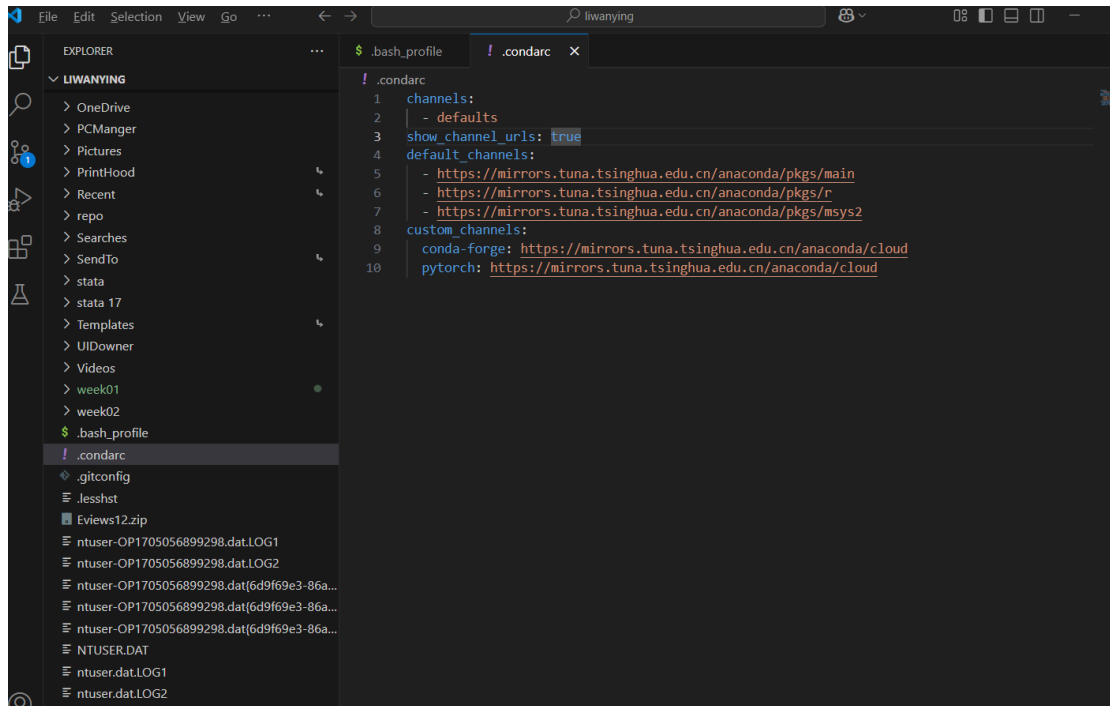
名称	修改日期	类型
prj1	2025/3/23 17:20	文件夹
prj2	2025/3/23 17:25	文件夹
.conda_envs_dir_test	2025/3/23 17:17	CONC

```
MINGW64:/c/Users/liwanying
$ conda env list
# conda environments:
#
base                * D:\XXX
prj1                 D:\XXX\envs\prj1
prj2                 D:\XXX\envs\prj2

(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda activate prj1
(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ which python
/d/XXX/envs/prj1/python
(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ python --version
Python 3.12.9
(prj1) liwanying@LAPTOP-4E3DBRB1 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
>>> quit()
(prj1) liwanying@LAPTOP-4E3DBRB1 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
>>>
```

```
MINGW64:~/Users/liwanying x + v
>>> quit()
(prj2) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda list
# packages in environment at D:\XXX\envs\prj2:
#
# Name                               Version                               Build      Channel
blas                                 1.0                                   mkl
bottleneck                          1.4.2                               py39hc99a966_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
$
(prj2) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
```

```
(prj2) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda activate prj1
(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda list
# packages in environment at D:\XXX\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
win_inet_pton                       1.1.0                              py312haa95532_0
xz                                  5.6.4                               h4754444_1
zlib                                1.2.13                              h8cc25b3_1
(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$
```



```
(prj1) liwanying@LAPTOP-4E3DBRB1 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.

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 DEBUG
                          logging, four times for TRACE logging.
  -q, --quiet            Do not display progress bar.
  -d, --dry-run          Only display what would have been done.
  -y, --yes              Sets any confirmation values to 'yes' automatically. Users will not be asked to confirm any
                          adding, deleting, backups, etc.

Examples::

    conda clean --tarballs
```

```
liwanying
! .condarc X
channels:
- conda-forge
show_channel_urls: true
default_channels:
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/main
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/r
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/msys2
custom_channels:
conda-forge: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
pytorch: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
channel_priority: strict

mkl_random
numpy
numpy-base
openssl
python
python_abi
setuptools
sqlite
tk
tbb
tzdata
vc
vs2015_runtime
wheel
xz
zlib

anaconda/pkg/main/win-64::mkl_random-1.2.8-py313hce389
anaconda/pkg/main/win-64::numpy-2.2.2-py313he6dc315_0
anaconda/pkg/main/win-64::numpy-base-2.2.2-py313h60114
anaconda/pkg/main/win-64::openssl-3.0.16-h3f729d1_0
anaconda/pkg/main/win-64::pip-25.0-py313haa95532_0
anaconda/pkg/main/win-64::python-3.13.2-hadb2040_100_0
anaconda/pkg/main/win-64::python_abi-3.13-0_cp313
anaconda/pkg/main/win-64::setuptools-72.1.0-py313haa95
anaconda/pkg/main/win-64::sqlite-3.45.3-h2bfff1b_0
anaconda/pkg/main/win-64::tbb-2021.8.0-h59b6b97_0
anaconda/pkg/main/win-64::tk-8.6.14-h0416ee5_0
anaconda/pkg/main/noarch::tzdata-2025a-h04d1e81_0
anaconda/pkg/main/win-64::vc-14.42-haa95532_4
anaconda/pkg/main/win-64::vs2015_runtime-14.42.34433-h
anaconda/pkg/main/win-64::wheel-0.45.1-py313haa95532_6
anaconda/pkg/main/win-64::xz-5.6.4-h4754444_1
anaconda/pkg/main/win-64::zlib-1.2.13-h8cc25b3_1

Proceed ([y]/n)? n

CondaSystemExit: Exiting.

(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda config --set channel_priority strict
(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$
```

```
MINGW64/c/Users/liwanying
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda activate prj1
(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda install polars
Channels:
- conda-forge
- 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): done
Solving environment: done

## Package Plan ##

environment location: D:\XXX\envs\prj1

added / updated specs:
- polars

The following packages will be downloaded:

package | build | size | channel
-----|-----|-----|-----
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
libcblas-3.9.0 | 31_h5e41251_mkl | 3.6 MB | conda-forge
libexpat-2.6.4 | he0c23c2_0 | 136 KB | conda-forge
```

```
>>> quit()
(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda env list
# conda environments:
#
base                  D:\XXX
prj1                  * D:\XXX\envs\prj1
prj2                  D:\XXX\envs\prj2

(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda deactivate
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~
$ conda env remove -n prj1

Remove all packages in environment D:\XXX\envs\prj1

## Package Plan ##

environment location: D:\XXX\envs\prj1

The following packages will be REMOVED:
```

此电脑 > Data (D:) > XXX > envs >

新建 剪切 复制 粘贴 删除 排序 查看 ...

XXX

condabin

conda-me

DLLs

envs

etc

include

Lib

Library

libs

Menu

名称

修改日期

类型

prj2

2025/3/23 17:25

文件夹

.conda_envs_dir_test

2025/3/23 17:17

CONC

```
MINGW64/c/Users/liwanying x + v
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          pyhd8ed1ab_1 conda-forge
setuptools           75.8.2          pyhff2d567_0 conda-forge
simplejson            3.20.1          pypi_0      pypi
six                  1.17.0          pypi_0      pypi
soupsieve            2.6             pypi_0      pypi
tbb                   2021.13.0       h62715c5_1  conda-forge
tk                   8.6.13          h5226925_1  conda-forge
tqdm                  4.67.1          pypi_0      pypi
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           pyhd8ed1ab_0 conda-forge
vc                   14.3            hbf610ac_24 conda-forge
vc14_runtime         14.42.34438     hfd919c2_24 conda-forge
websocket-client      1.8.0           pypi_0      pypi
wheel                0.45.1          pyhd8ed1ab_1 conda-forge
win_inet_pton        1.1.0           pyh7428d3b_8 conda-forge
zstandard            0.23.0          py312h4389bb4_1 conda-forge
(prj1) liwanying@LAPTOP-4E3DBRB1 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 tushare
>>> tushare.__version__
'1.4.19'
>>>
```

```
MINGW64/c/Users/liwanying x + v - □ x
urllib3              2.3.0           pyhd8ed1ab_0 conda-forge
vc                   14.3            hbf610ac_24 conda-forge
vc14_runtime         14.42.34438     hfd919c2_24 conda-forge
websocket-client      1.8.0           pypi_0      pypi
wheel                0.45.1          pyhd8ed1ab_1 conda-forge
win_inet_pton        1.1.0           pyh7428d3b_8 conda-forge
zstandard            0.23.0          py312h4389bb4_1 conda-forge
(prj1) liwanying@LAPTOP-4E3DBRB1 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:
- brotli-python=1.1.0=py312h275cf98_2
- bzip2=1.0.8=h2466b09_7
- ca-certificates=2025.1.31=h56e8100_0
- certifi=2025.1.31=pyhd8ed1ab_0
- cffi=1.17.1=py312h4389bb4_0
- charset-normalizer=3.4.1=pyhd8ed1ab_0
- h2=4.2.0=pyhd8ed1ab_0
- hpack=4.1.0=pyhd8ed1ab_0
- hyperframe=6.1.0=pyhd8ed1ab_0
- idna=3.10=pyhd8ed1ab_1
- intel-openmp=2024.2.1=h57928b3_1083
- libblas=3.9.0=31_h641d27c_mkl
- libcbblas=3.9.0=31_h5e41251_mkl
- libexpat=2.6.4=he0c23c2_0
```

```

$ ls -l
total 0
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/prj1
$ mv ~/environment.yml ./
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/prj1
$ code .
node:internal/modules/cjs/loader:1235
    throw err;
    ^

Error: Cannot find module 'D:\XXX\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) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/prj1
$ conda env list
# conda environments:
#
base                * D:\XXX
prj2                D:\XXX\envs\prj2

(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/prj1
$

```

```

MINGW64: c/Users/liwanying x + v
Requirement already satisfied: charset-normalizer<4,>=2 in d:\xxx\envs\prj1\lib\site-packages (from requests->tushare==)
Requirement already satisfied: idna<4,>=2.5 in d:\xxx\envs\prj1\lib\site-packages (from requests->tushare==1.4.19->r C)
Requirement already satisfied: urllib3<3,>=1.21.1 in d:\xxx\envs\prj1\lib\site-packages (from requests->tushare==1.4.19)
Requirement already satisfied: certifi>=2017.4.17 in d:\xxx\envs\prj1\lib\site-packages (from requests->tushare==1.4.19)
Installing collected packages: pytz, websocket-client, tzdata, typing-extensions, soupsieve, six, simplejson, polars, le
Successfully installed beautifulsoup4-4.13.3 bs4-0.0.2 colorama-0.4.6 lxml-5.3.1 pandas-2.2.3 polars-1.24.0 python-date0

done
#
# To activate this environment, use
#
#     $ conda activate prj1
#
# To deactivate an active environment, use
#
#     $ conda deactivate

(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/prj1
$ conda env list
# conda environments:
#
base                * D:\XXX
prj1                D:\XXX\envs\prj1
prj2                D:\XXX\envs\prj2

(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/prj1
$ conda activate prj1
(prj1) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/prj1
$ conda list
# packages in environment at D:\XXX\envs\prj1:

```



```

MINGW64/c/Users/liwanying x + v
$ pwd
/c/Users/liwanying/repo
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo
$ ls -l
total 4
drwxr-xr-x 1 liwanying 197121 0 3月 15 23:21 mywork/
drwxr-xr-x 1 liwanying 197121 0 3月 23 19:31 prj1/
-rw-r--r-- 1 liwanying 197121 0 3月 9 23:18 script1.py
drwxr-xr-x 1 liwanying 197121 0 3月 12 23:35 week01/
drwxr-xr-x 1 liwanying 197121 0 3月 15 23:55 week02/
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo
$ conda env list
# conda environments:
#
base * D:\XXX
prj1 D:\XXX\envs\prj1
prj2 D:\XXX\envs\prj2

(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo
$ ls -l
total 4
drwxr-xr-x 1 liwanying 197121 0 3月 15 23:21 mywork/
drwxr-xr-x 1 liwanying 197121 0 3月 23 19:31 prj1/
-rw-r--r-- 1 liwanying 197121 0 3月 9 23:18 script1.py
drwxr-xr-x 1 liwanying 197121 0 3月 12 23:35 week01/
drwxr-xr-x 1 liwanying 197121 0 3月 15 23:55 week02/
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo
$ mkdir myproject
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo
$ █

```

The image shows a Windows operating system interface with a Visual Studio Code editor and a terminal window.

Visual Studio Code Editor:

- The active file is `environment.yml`.
- The content of `environment.yml` is:

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

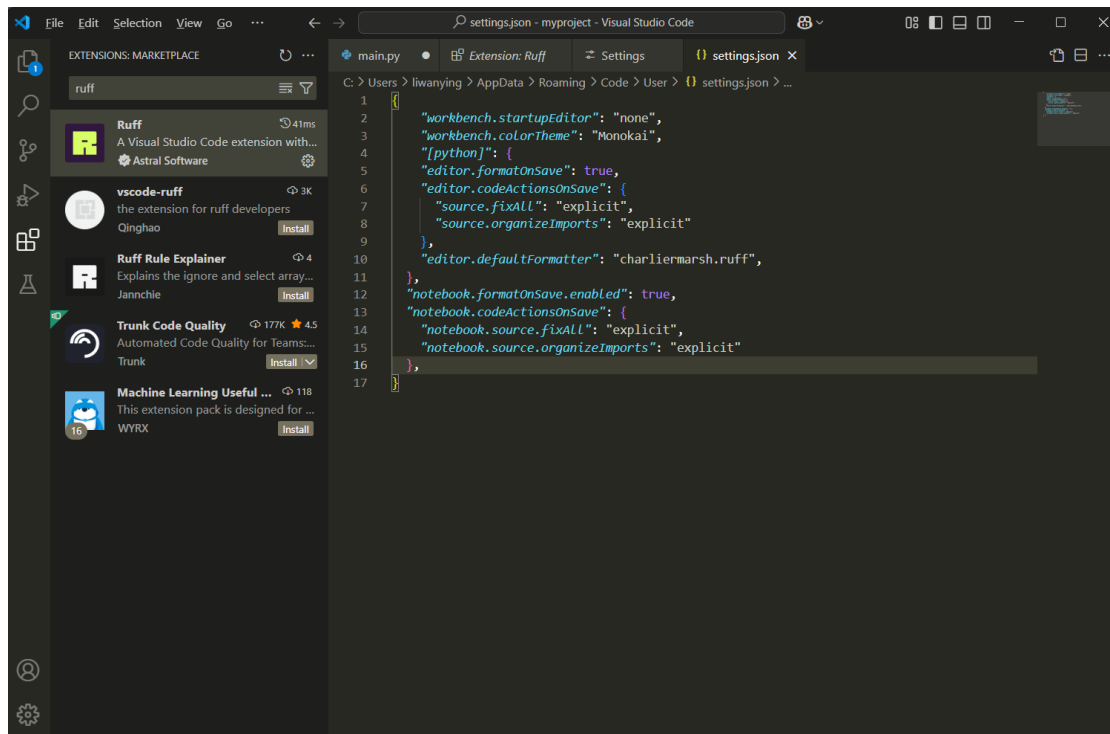
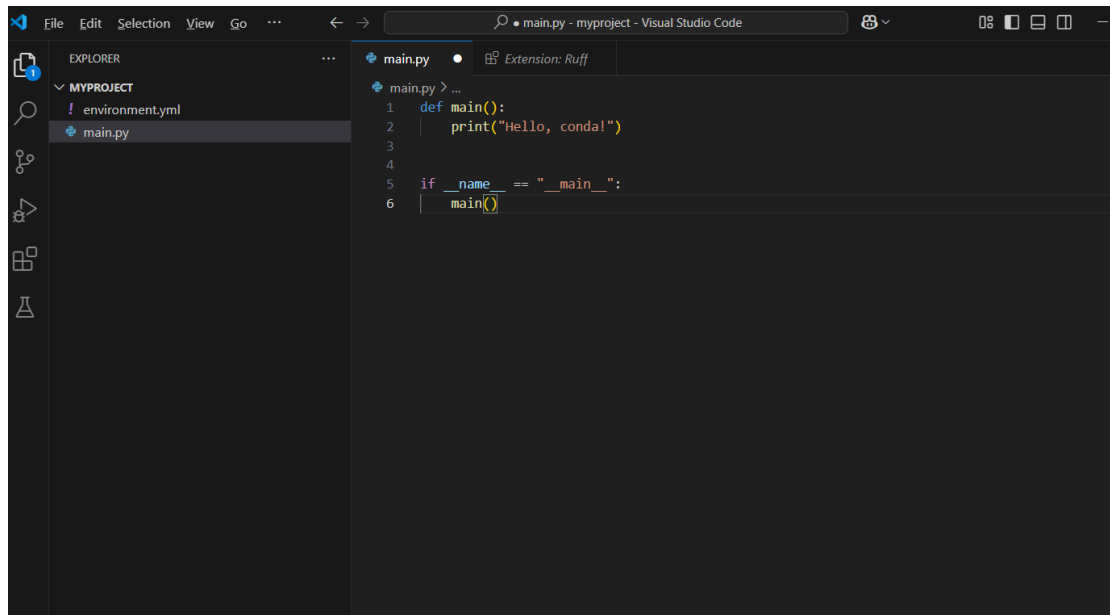
Terminal Window (MINGW64):

```

$ code myproject/
node:internal/modules/cjs/loader:1235
  throw err;
  ^

Error: Cannot find module 'D:\XXX\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) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo
$ cd myproject/
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ ls -l
total 1
-rw-r--r-- 1 liwanying 197121 75  3月 23 19:51 environment.yml
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ cat environment.yml
name: myproject
channels:
  - conda-forge
dependencies:
  - python=3.12
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
```



```
View Go ... main.py - myproject - Visual Studio Code
main.py x Extension: Ruff Settings settings.json
main.py > ...
1 def main():
2     print("Hello, conda!")
3
4
5 if __name__ == "__main__":
6     main()
7

MINGW64/c/Users/liwanying x + v
(base) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ conda activate myproject
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ conda list
# packages in environment at D:\XXX\envs\myproject:
#
# Name                 Version           Build    Channel
bzip2                  1.0.8             h2466b09_7  conda-forge
ca-certificates        2025.1.31         h56e8100_0  conda-forge
libexpat               2.6.4            he0c23c2_0  conda-forge
libffi                 3.4.6            h537db12_0  conda-forge
liblzma                5.6.4            h2466b09_0  conda-forge
libsqlite              3.49.1           h67fdade_2  conda-forge
libzlib                1.3.1            h2466b09_2  conda-forge
openssl               3.4.1            ha4e3fda_0  conda-forge
pip                   25.0.1           pyh8b19718_0  conda-forge
python                3.12.9           h3f84c4b_1_cpython  conda-forge
setuptools            75.8.2           pyhff2d567_0  conda-forge
tk                    8.6.13           h5226925_1  conda-forge
tzdata                2025a            h78e105d_0  conda-forge
ucrt                  10.0.22621.0     h57928b3_1  conda-forge
vc                    14.3             hbf610ac_24  conda-forge
vc14_runtime          14.42.34438      hfd919c2_24  conda-forge
wheel                 0.45.1           pyhd8ed1ab_1  conda-forge
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$
```

```
MINGW64/c/Users/liwanying x + v
tbb                   2021.13.0         h62715c5_1  conda-forge
tk                    8.6.13           h5226925_1  conda-forge
tzdata               2025a            h78e105d_0  conda-forge
ucrt                  10.0.22621.0     h57928b3_1  conda-forge
vc                    14.3             hbf610ac_24  conda-forge
vc14_runtime          14.42.34438      hfd919c2_24  conda-forge
wheel                 0.45.1           pyhd8ed1ab_1  conda-forge
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
Traceback (most recent call last):
  File "C:\Users\liwanying\repo\myproject\main.py", line 11, in <module>
    main()
  File "C:\Users\liwanying\repo\myproject\main.py", line 6, in main
    print(pd.__version__)
    ^^^^^^^^^^^^^^^^^
AttributeError: module 'pandas' has no attribute '_version_'. Did you mean: '__version__'?
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ ls -l
total 2
-rw-r--r-- 1 liwanying 197121 87 3月 23 20:44 environment.yml
-rw-r--r-- 1 liwanying 197121 157 3月 23 20:51 main.py
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ curl -O https://edg.epa.gov/EPADDataCommons/public/OA/EPA_SmartLocationDatabase_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      0  0
0         0    0     0    0     0      0      0      0  0
```

```
File Edit Selection View Go ... myproject
EXPLORER
  MYPROJECT
    environment.yml
    EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv
    main.py
  Settings
  main.py
  EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv
  Extension: Rainbow CSV

1 OBJECTID, GEOID10, STATEFP, COUNTYFP, TRACTCE, BLKGRPC, CSA, CSA_Name, CBSA, CBSA_Name, ...
2 1, 4.8113E+11, 4.8113E+11, 48, 113, 7825, 4, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
3 2, 4.8113E+11, 4.8113E+11, 48, 113, 7825, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
4 3, 4.8113E+11, 4.8113E+11, 48, 113, 7825, 3, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
5 4, 4.8113E+11, 4.8113E+11, 48, 113, 7824, 1, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
6 5, 4.8113E+11, 4.8113E+11, 48, 113, 7824, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
7 6, 4.8113E+11, 4.8113E+11, 48, 113, 7827, 1, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
8 7, 4.8113E+11, 4.8113E+11, 48, 113, 9301, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
9 8, 4.8113E+11, 4.8113E+11, 48, 113, 1102, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
10 9, 4.8113E+11, 4.8113E+11, 48, 113, 11401, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
11 10, 4.8113E+11, 4.8113E+11, 48, 113, 11401, 3, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
12 11, 4.8113E+11, 4.8113E+11, 48, 113, 11500, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
13 12, 4.8113E+11, 4.8113E+11, 48, 113, 11500, 1, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
14 13, 4.8113E+11, 4.8113E+11, 48, 113, 12301, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
15 14, 4.8113E+11, 4.8113E+11, 48, 113, 12301, 3, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
16 15, 4.8329E+11, 4.8329E+11, 48, 329, 304, 3, 372, "Midland-Odessa, TX", 33260, "Midland, TX", 16980 ...
17 16, 4.8329E+11, 4.8329E+11, 48, 329, 305, 2, 372, "Midland-Odessa, TX", 33260, "Midland, TX", 16980 ...
18 17, 4.8113E+11, 4.8113E+11, 48, 113, 12302, 1, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
19 18, 4.8113E+11, 4.8113E+11, 48, 113, 12302, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
20 19, 4.8113E+11, 4.8113E+11, 48, 113, 13105, 3, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
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22 21, 4.8113E+11, 4.8113E+11, 48, 113, 13400, 1, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
23 22, 4.8113E+11, 4.8113E+11, 48, 113, 13607, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
24 23, 4.8329E+11, 4.8329E+11, 48, 329, 305, 1, 372, "Midland-Odessa, TX", 33260, "Midland, TX", 16980 ...
25 24, 4.8329E+11, 4.8329E+11, 48, 329, 305, 5, 372, "Midland-Odessa, TX", 33260, "Midland, TX", 16980 ...
26 25, 4.8329E+11, 4.8329E+11, 48, 329, 401, 1, 372, "Midland-Odessa, TX", 33260, "Midland, TX", 16980 ...
27 26, 4.8329E+11, 4.8329E+11, 48, 329, 402, 1, 372, "Midland-Odessa, TX", 33260, "Midland, TX", 16980 ...
28 27, 4.8329E+11, 4.8329E+11, 48, 329, 402, 2, 372, "Midland-Odessa, TX", 33260, "Midland, TX", 16980 ...
29 28, 4.8329E+11, 4.8329E+11, 48, 329, 402, 3, 372, "Midland-Odessa, TX", 33260, "Midland, TX", 16980 ...
30 29, 4.8113E+11, 4.8113E+11, 48, 113, 13608, 1, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
31 30, 4.8113E+11, 4.8113E+11, 48, 113, 13610, 1, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
32 31, 4.8113E+11, 4.8113E+11, 48, 113, 13610, 3, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
33 32, 4.8113E+11, 4.8113E+11, 48, 113, 14901, 1, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
34 33, 4.8113E+11, 4.8113E+11, 48, 113, 15202, 1, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
35 34, 4.8113E+11, 4.8113E+11, 48, 113, 15204, 2, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
36 35, 4.8113E+11, 4.8113E+11, 48, 113, 15204, 6, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...
37 36, 4.8113E+11, 4.8113E+11, 48, 113, 17201, 4, 206, "Dallas-Fort Worth, TX-OK", 19100, "Dallas-Fort ...

Please reopen file in order for this setting to take effect.
```

```
main.py
import pandas as pd

def main():
    """
    Answers the question:

    What percentage of U.S. residents live highly walkable neighborhoods?

    "15.26" is the threshold on the index for a highly walkable area.
    """
    csv_file = "./EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv"
    highly_walkable = 15.26

    df = pd.read_csv(csv_file)

    total_population = df[["TotPop"]].sum()
    highly_walkable_pop = df[df["NatWalkInd"] >= highly_walkable][["TotPop"]].sum()

    percentage = (highly_walkable_pop / total_population) * 100.0

    print(
        f"{percentage:.2f}% of U.S. residents live in highly walkable neighborhoods."
    )

if __name__ == "__main__":
    main()

print(pd.__version__)
AttributeError: module 'pandas' has no attribute '_version_'. Did
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ ls -l
total 2
-rw-r--r-- 1 liwanying 197121 87 3月 23 20:44 environment.yml
-rw-r--r-- 1 liwanying 197121 157 3月 23 20:51 main.py
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ curl -O https://edg.epa.gov/EPADDataCommons/public/OA/EPA_SmartLoca
% Total % Received % Xferd Average Speed Time Time
Download Upload Total Spent
100 192M 100 192M 0 0 227k 0 0:14:26 0:14:26 -
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ ls -l
total 196846
-rw-r--r-- 1 liwanying 197121 87 3月 23 20:44 environment.yml
-rw-r--r-- 1 liwanying 197121 201568176 3月 23 21:07 EPA_SmartLoca
-rw-r--r-- 1 liwanying 197121 157 3月 23 20:51 main.py
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ ls -lh
total 193M
-rw-r--r-- 1 liwanying 197121 87 3月 23 20:44 environment.yml
-rw-r--r-- 1 liwanying 197121 193M 3月 23 21:07 EPA_SmartLoca
-rw-r--r-- 1 liwanying 197121 157 3月 23 20:51 main.py
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$ python main.py
10.69% of U.S. residents live in highly walkable neighborhoods.
(myproject) liwanying@LAPTOP-4E3DBRB1 MINGW64 ~/repo/myproject
$
```