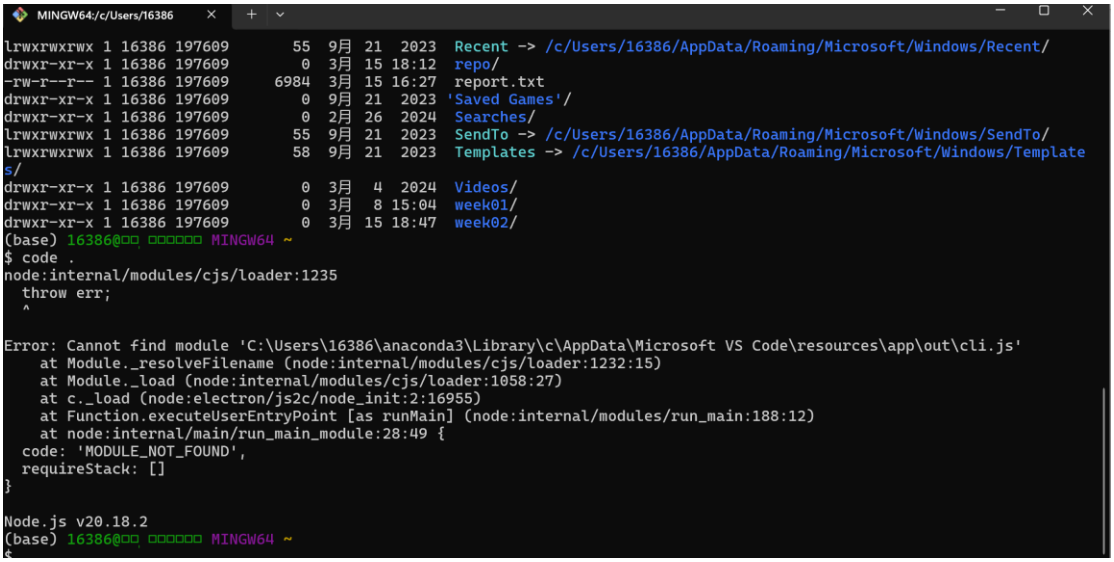
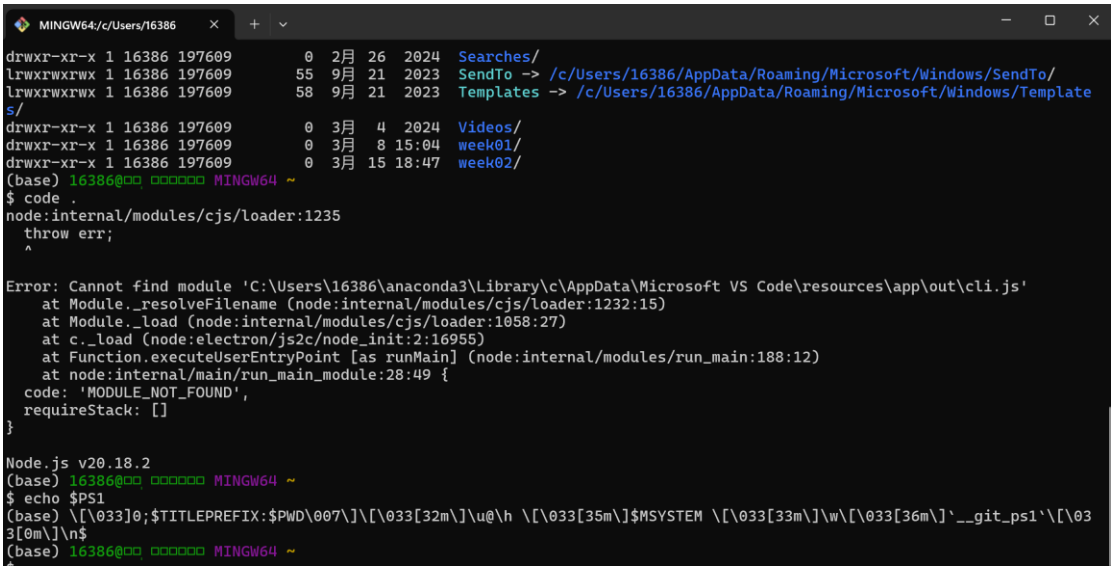
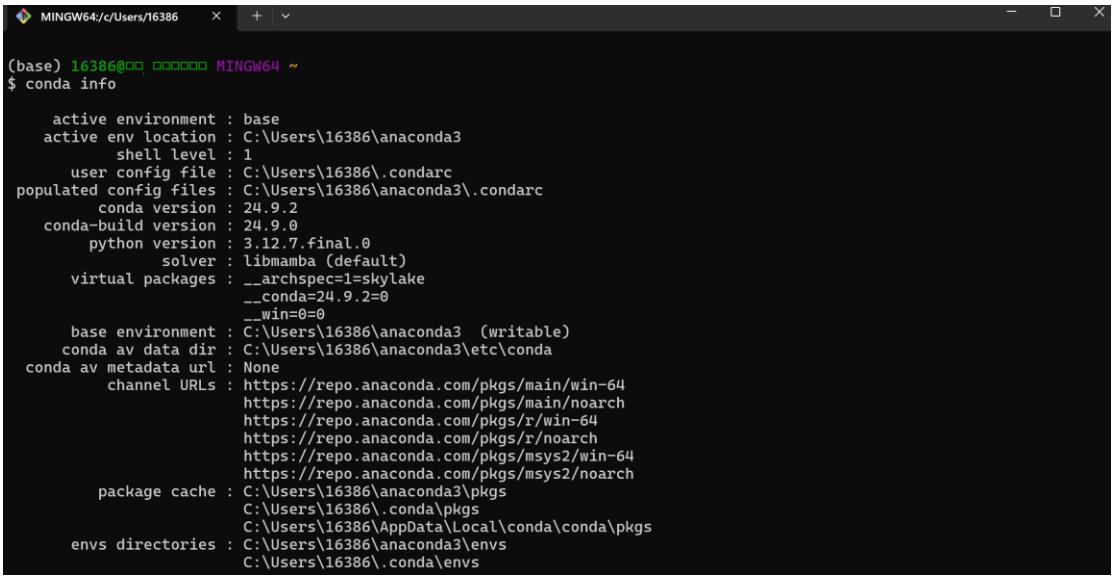
1. 配置好 Conda Init,使提示符前能看到 base，配置启动脚本

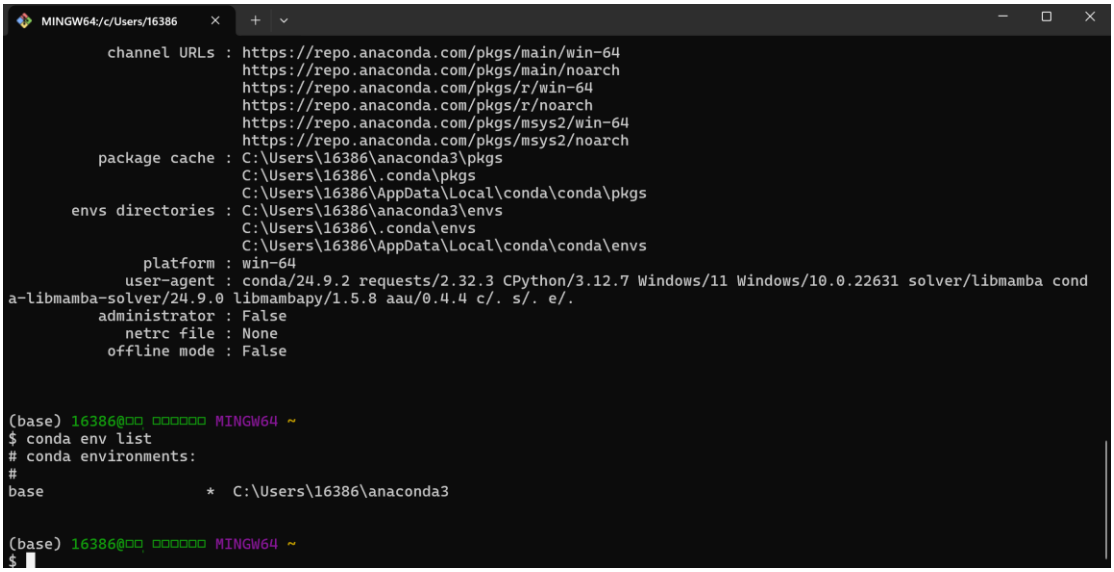




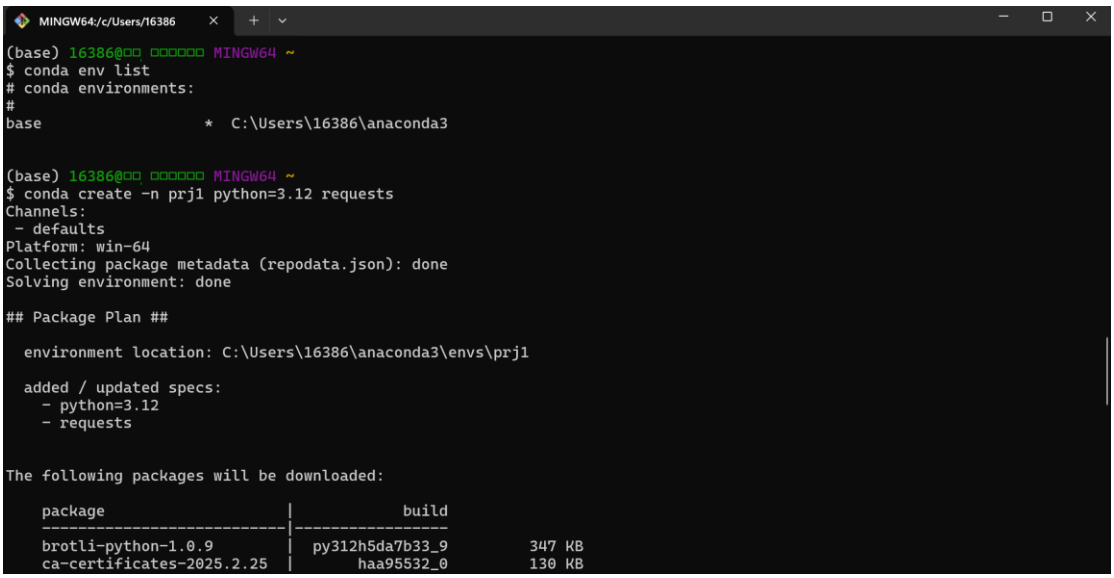
2. conda info 命令：查看 Conda 的配置信息

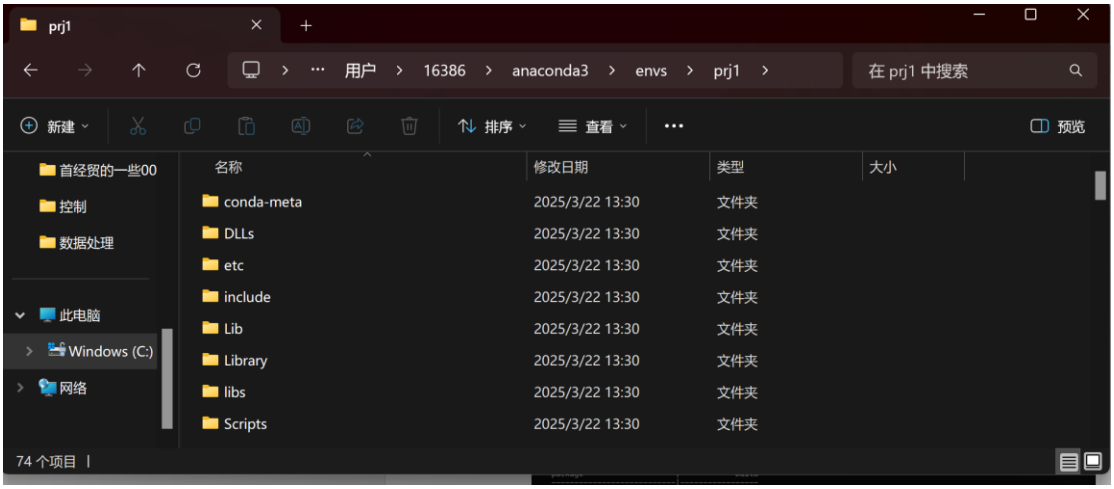


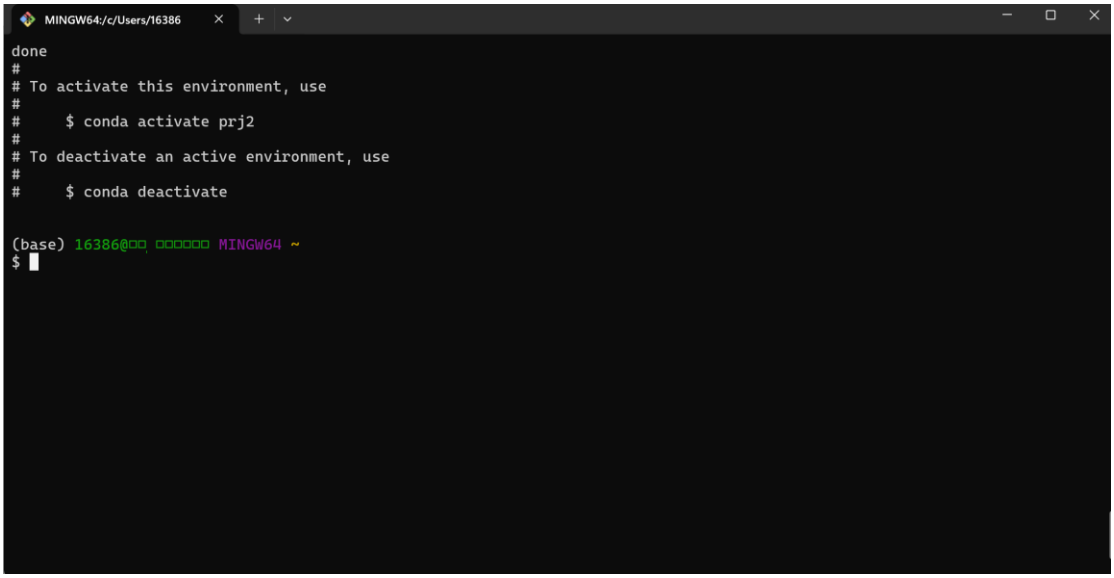
3. conda env list 命令：查看 Conda 环境的名称和路径

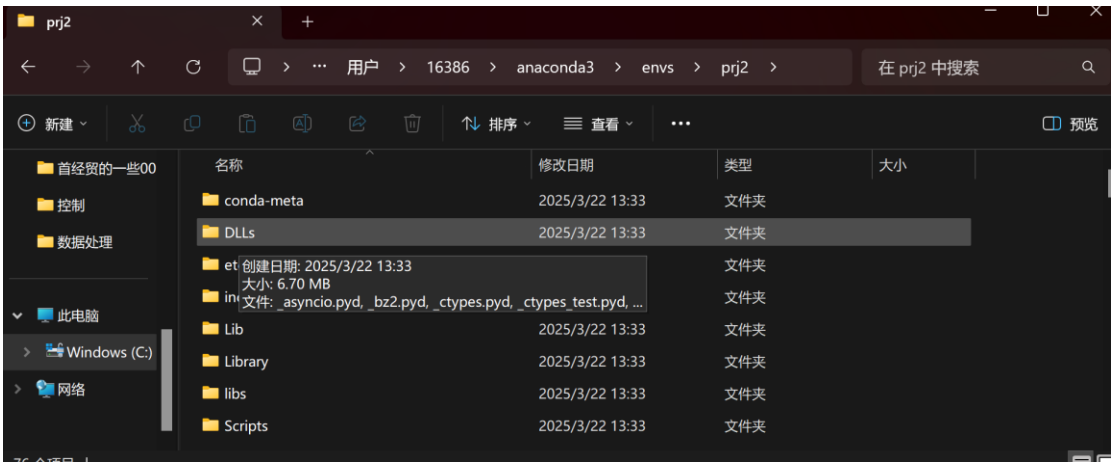


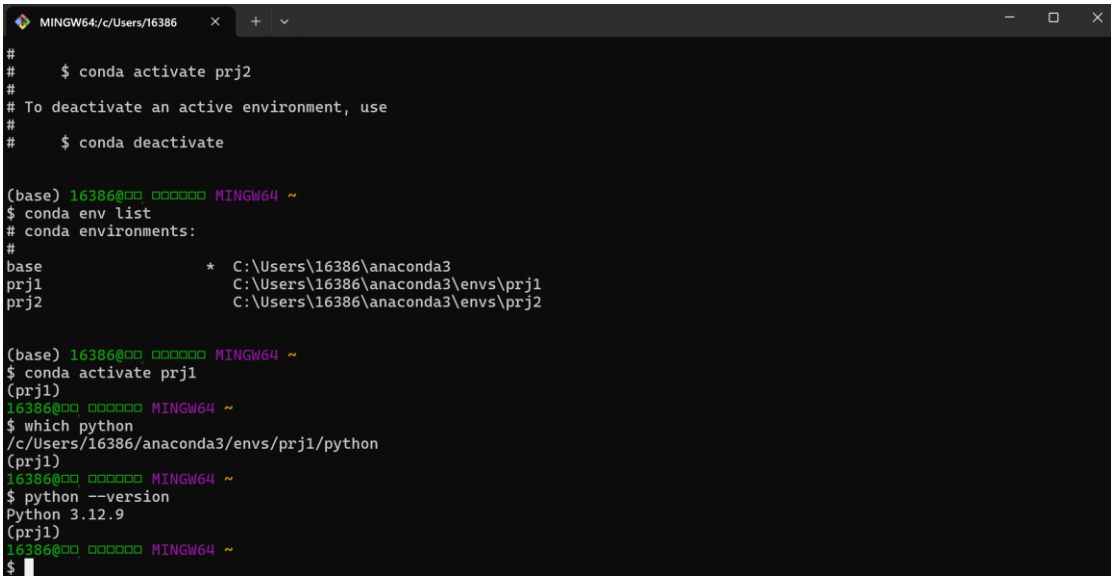
4. conda create 命令：创建环境，安装软件，切换环境并验证版本

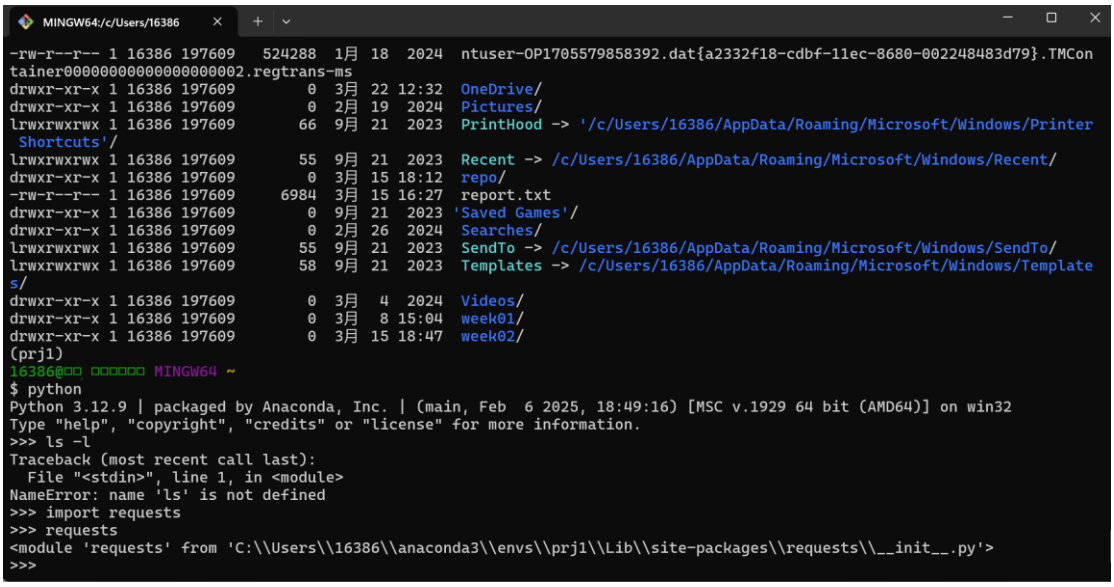


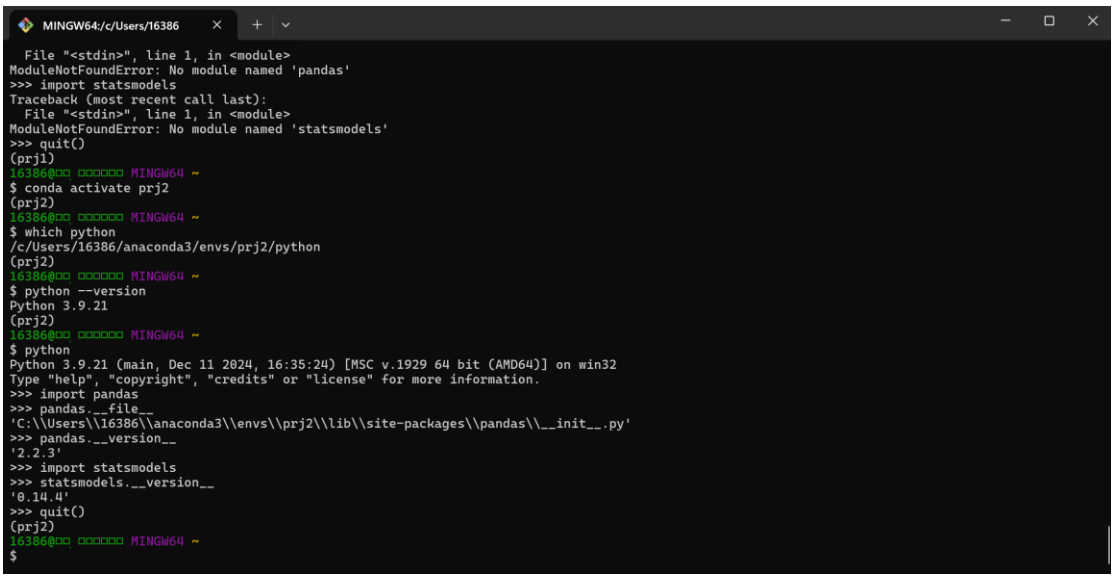

prj1
用户 › 16386 › anaconda3 › envs › prj1 ›
在 prj1 中搜索
新建
排序
查看
预览
首经贸的一些00
控制
数据处理
此电脑
Windows (C:)
网络
名称
修改日期
类型
大小
conda-meta 2025/3/22 13:30 文件夹
DLLs 2025/3/22 13:30 文件夹
etc 2025/3/22 13:30 文件夹
include 2025/3/22 13:30 文件夹
Lib 2025/3/22 13:30 文件夹
Library 2025/3/22 13:30 文件夹
libs 2025/3/22 13:30 文件夹
Scripts 2025/3/22 13:30 文件夹
74 个项目


MINGW64:/c/Users/16386
done
#
To activate this environment, use
#
$ conda activate prj2
#
To deactivate an active environment, use
#
$ conda deactivate
(base) 16386@□□ □□□□□□ MINGW64 ~
$

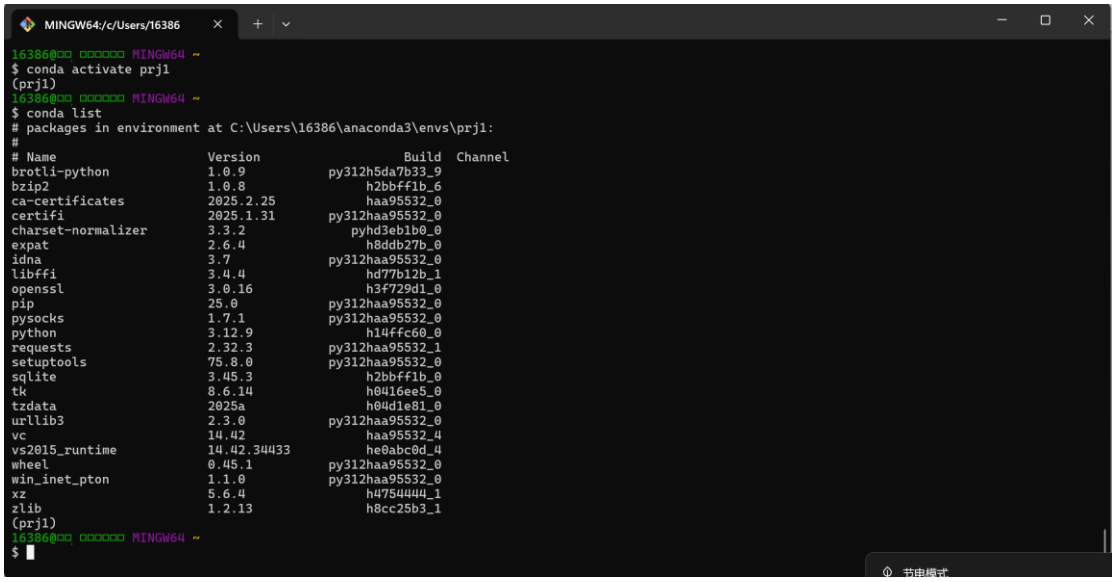

prj2
用户 › 16386 › anaconda3 › envs › prj2 ›
在 prj2 中搜索
新建
排序
查看
预览
首经贸的一些00
控制
数据处理
此电脑
Windows (C:)
网络
名称
修改日期
类型
大小
conda-meta 2025/3/22 13:33 文件夹
DLLs 2025/3/22 13:33 文件夹
创建日期: 2025/3/22 13:33
大小: 6.70 MB
文件: _asyncio.pyd, _bz2.pyd, _ctypes.pyd, _ctypes_test.pyd, ...
Lib 2025/3/22 13:33 文件夹
Library 2025/3/22 13:33 文件夹
libs 2025/3/22 13:33 文件夹
Scripts 2025/3/22 13:33 文件夹



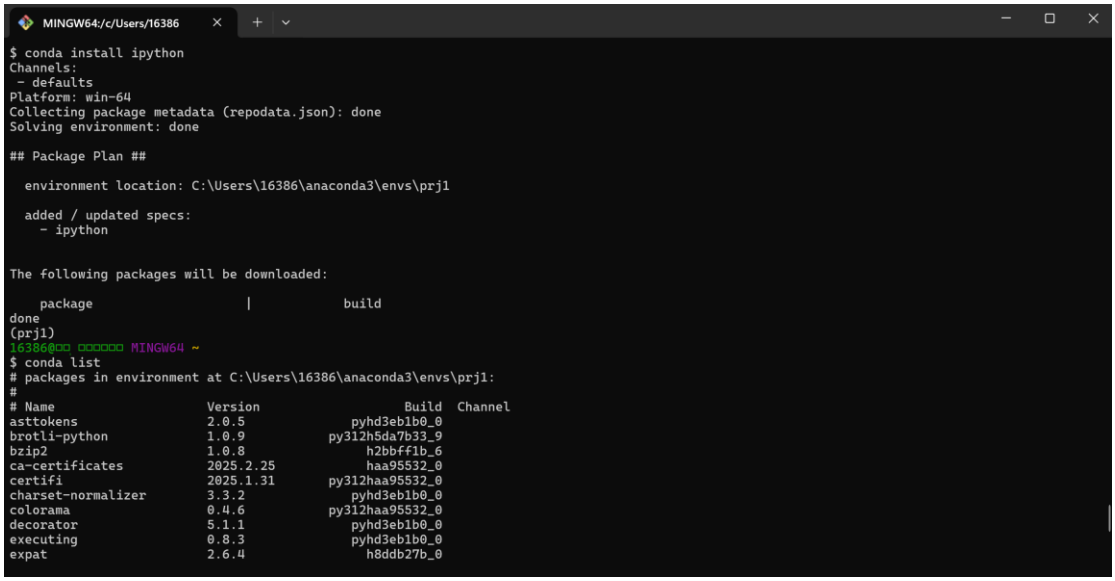




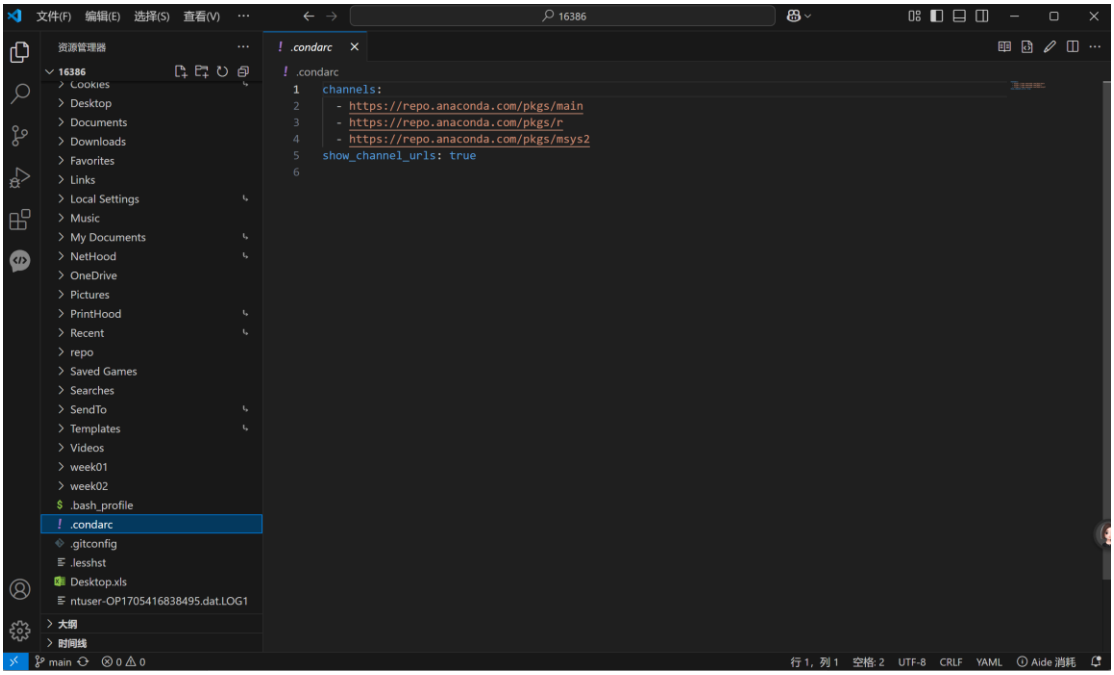
5. conda list 命令：显示软件包列表和版本信息



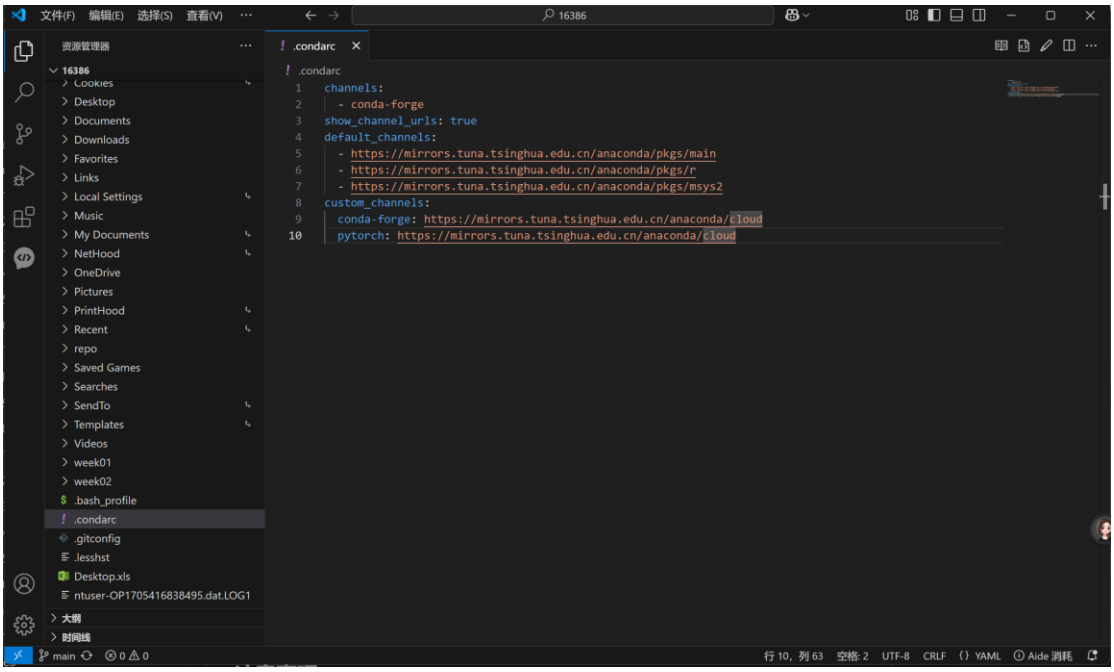
6. conda install 命令：安装软件包并验证版本



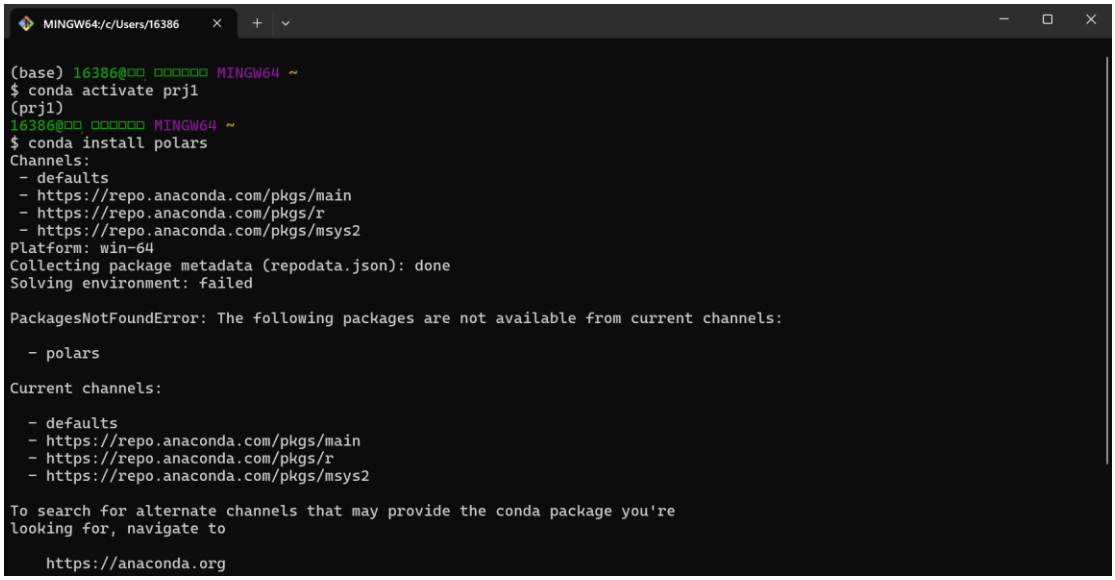
7. 配置 Anaconda 清华镜像，首先先创建名为 .condarc 的文件



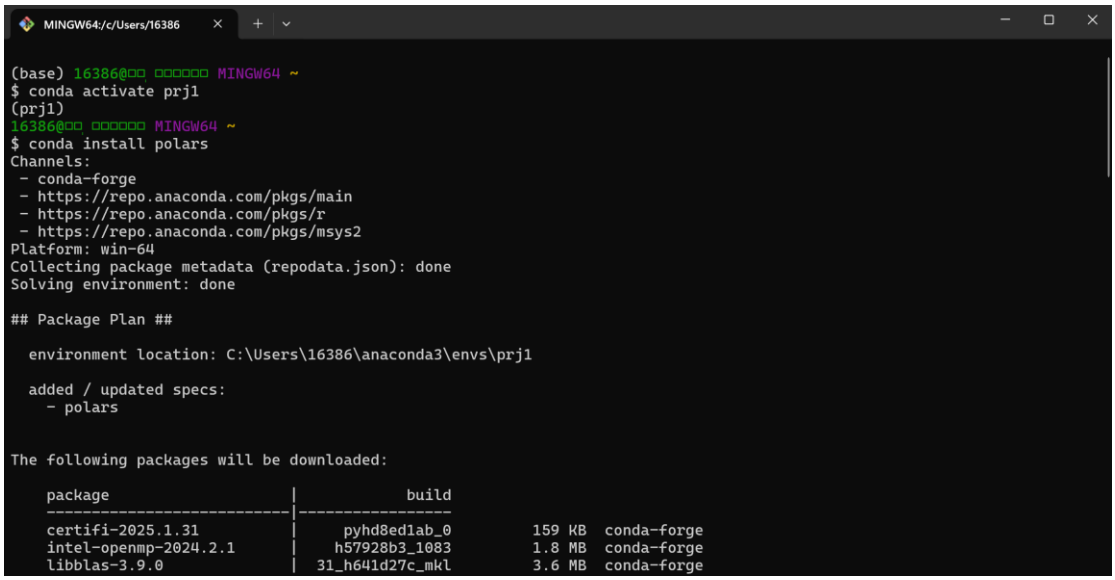
添加 Anaconda Python 免费仓库，将 conda-forge 设置为默认 Channel

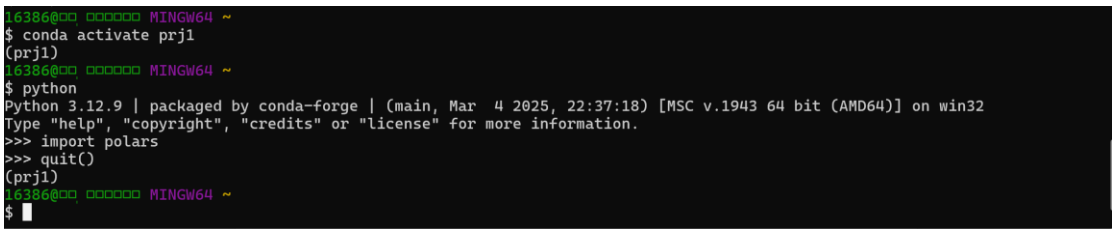


安装 polars（defaults channel）



（conda-forge channel）



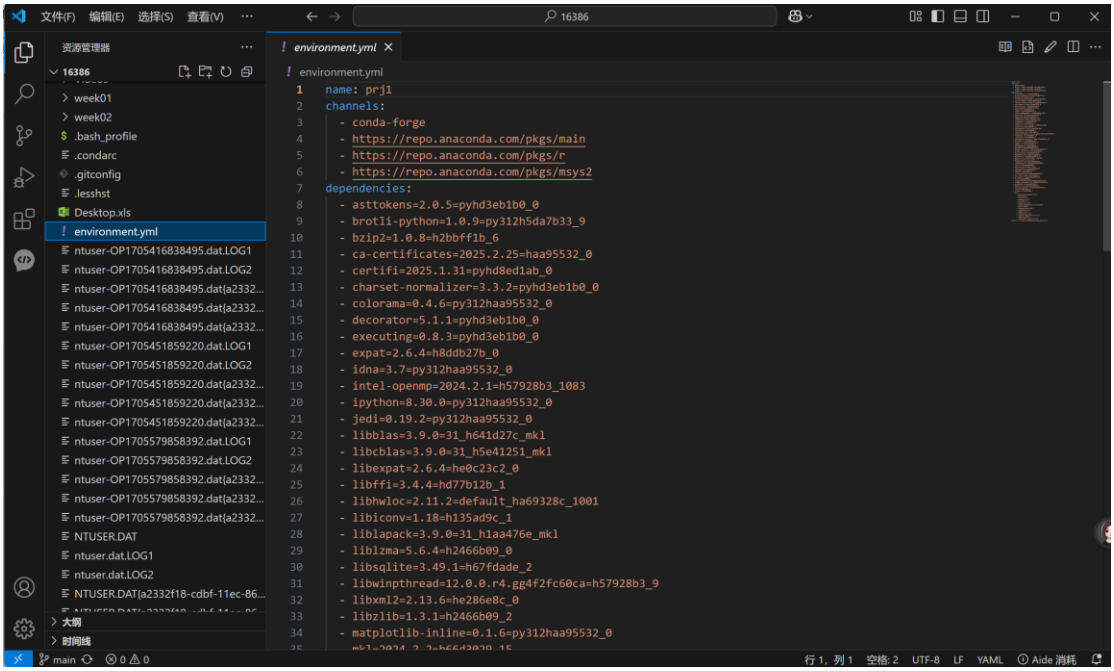


8. pip install 命令安装 python，并配置 PyPI 清华镜像

```
MINGW64:/c/Users/16386
Downloading pytz-2025.1-py2.py3-none-any.whl (507 kB)
Downloading tzdata-2025.1-py2.py3-none-any.whl (346 kB)
Downloading beautifulsoup4-4.13.3-py3-none-any.whl (186 kB)
Downloading soupsieve-2.6-py3-none-any.whl (36 kB)
Downloading typing_extensions-4.12.2-py3-none-any.whl (37 kB)
Installing collected packages: pytz, websocket-client, tzdata, typing-extensions, tqdm, soupsieve, simplejson, python-da
teutil, lxml, pandas, beautifulsoup4, bs4, tushare
Successfully installed beautifulsoup4-4.13.3 bs4-0.0.2 lxml-5.3.1 pandas-2.2.3 python-dateutil-2.9.0.post0 pytz-2025.1 s
implejson-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
(prj1)
16386@□□ □□□□□□ MINGW64 ~
$ python -m pip install --upgrade pip
Requirement already satisfied: pip in c:\users\16386\anaconda3\envs\prj1\lib\site-packages (25.0)
Collecting pip
  Downloading pip-25.0.1-py3-none-any.whl.metadata (3.7 kB)
Downloading pip-25.0.1-py3-none-any.whl (1.8 MB)
   ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 1.8/1.8 MB 7.2 MB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 25.0
    Uninstalling pip-25.0:
      Successfully uninstalled pip-25.0
Successfully installed pip-25.0.1
(prj1)
16386@□□ □□□□□□ MINGW64 ~
$ pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Writing to C:\Users\16386\AppData\Roaming\pip\pip.ini
(prj1)
16386@□□ □□□□□□ MINGW64 ~
$
```

9. 导出 Conda 环境配置文件

```
16386@□□ □□□□□□ MINGW64 ~
$ conda env export
name: prj1
channels:
  - conda-forge
  - https://repo.anaconda.com/pkgs/main
  - https://repo.anaconda.com/pkgs/r
  - https://repo.anaconda.com/pkgs/msys2
dependencies:
  - asttokens=2.0.5=pyhd3eb1b0_0
  - brotli-python=1.0.9=py312h5da7b33_9
  - bzip2=1.0.8=h2bbff1b_6
  - ca-certificates=2025.2.25=haa95532_0
  - certifi=2025.1.31=pyhd8ed1ab_0
  - charset-normalizer=3.3.2=pyhd3eb1b0_0
  - colorama=0.4.6=py312haa95532_0
  - decorator=5.1.1=pyhd3eb1b0_0
  - executing=0.8.3=pyhd3eb1b0_0
  - expat=2.6.4=h8ddb27b_0
  - idna=3.7=py312haa95532_0
  - intel-openmp=2024.2.1=h57928b3_1083
  - ipython=8.30.0=py312haa95532_0
  - jedi=0.19.2=py312haa95532_0
  - libblas=3.9.0=31_h641d27c_mkl
  - libcblas=3.9.0=31_h5e41251_mkl
  - libexpat=2.6.4=he0c23c2_0
  - libffi=3.4.4=hd77b12b_1
  - libhwloc=2.11.2=default_ha69328c_1001
  - libiconv=1.18=h135ad9c_1
```



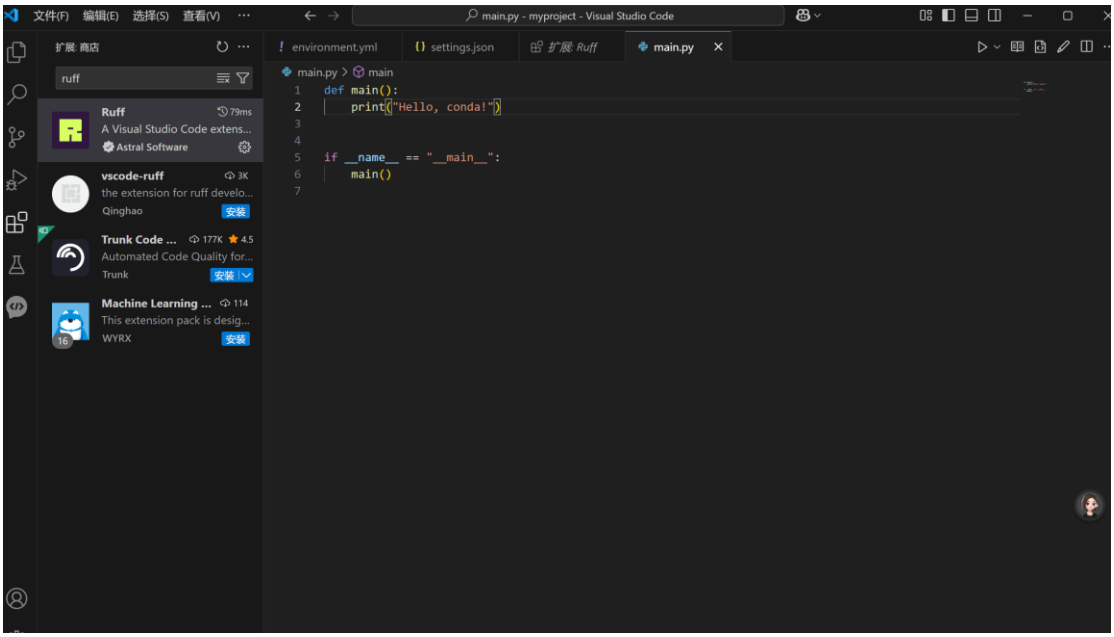
删除环境

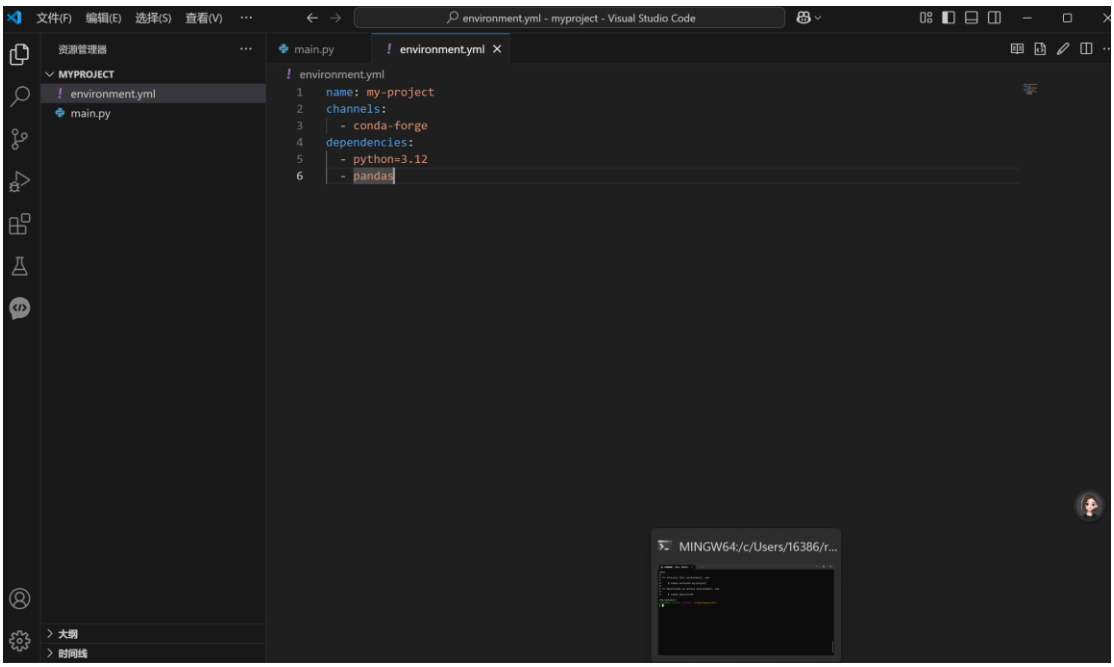
```
16386@□□ □□□□□□ MINGW64 ~
$ conda deactivate
(base)
16386@□□ □□□□□□ MINGW64 ~
$ conda env list
# conda environments:
#
base                  *  C:\Users\16386\anaconda3
prj1                     C:\Users\16386\anaconda3\envs\prj1
prj2                     C:\Users\16386\anaconda3\envs\prj2

(base)
16386@□□ □□□□□□ MINGW64 ~
$ conda env remove -n prj1

Remove all packages in environment C:\Users\16386\anaconda3\envs\prj1:


## Package Plan ##

  environment location: C:\Users\16386\anaconda3\envs\prj1


The following packages will be REMOVED:

  asttokens-2.0.5-pyhd3eb1b0_0
  brotli-python-1.0.9-py312h5da7b33_9
```

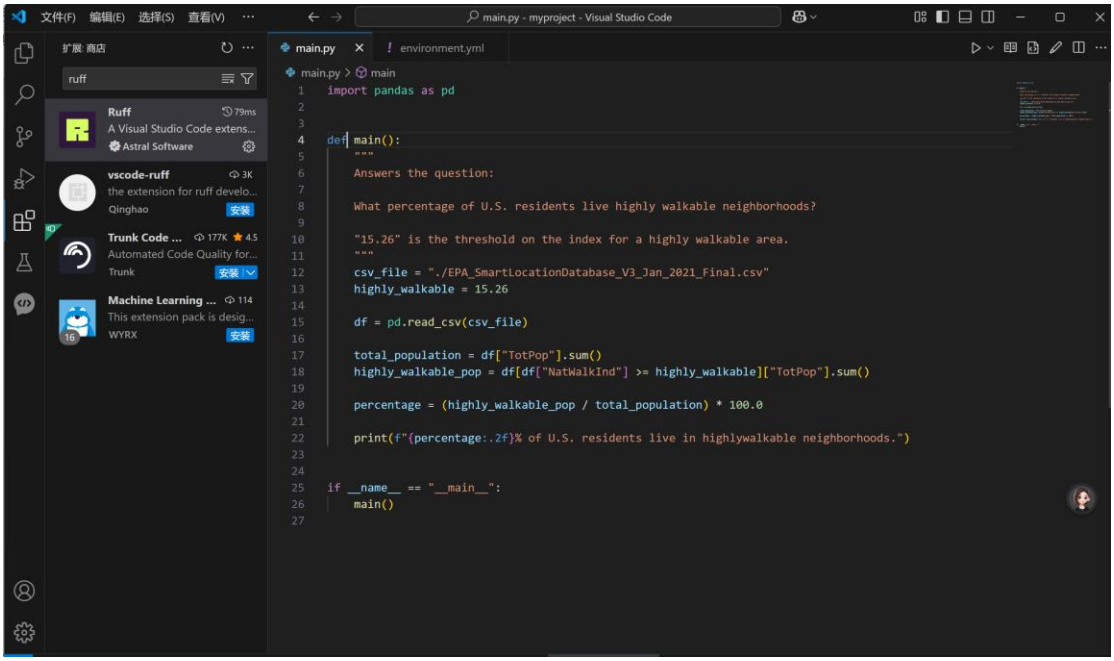
10. 创建项目

```
MINGW64:/c/Users/16386/rep

(base) 16386@□□ □□□□□□ MINGW64 ~/repo
$ mkdir myproject

(base) 16386@□□ □□□□□□ MINGW64 ~/repo
$ ls -l
total 0
drwxr-xr-x 1 16386 197609 0  3月  22 16:20 myproject/
drwxr-xr-x 1 16386 197609 0  3月  15 18:23 mywork/
drwxr-xr-x 1 16386 197609 0  3月  22 15:26 prj1/

(base) 16386@□□ □□□□□□ MINGW64 ~/repo
$ cat environment.yml
cat: environment.yml: No such file or directory

(base) 16386@□□ □□□□□□ MINGW64 ~/repo
$ cd myproject/

(base) 16386@□□ □□□□□□ MINGW64 ~/repo/myproject
$ cat environment.yml
name: my-project
channels:
  - conda-forge
done
#
# To activate this environment, use
#
#     $ conda activate my-project
#
# To deactivate an active environment, use
```

编写 main.py 脚本




文件(F) 编辑(E) 选择(S) 查看(V)
environment.yml - myproject - Visual Studio Code
资源管理器
MYPROJECT
environment.yml
main.py
main.py
environment.yml
environment.yml
name: my-project
channels:
- conda-forge
dependencies:
- python=3.12
- pandas
MINGW64:/c/Users/16386/r...
大纲
时间线


文件(F) 编辑(E) 选择(S) 查看(V)
main.py - myproject - Visual Studio Code
扩展: 商店
ruff
Ruff
A Visual Studio Code extens...
Astral Software
vscode-ruff
the extension for ruff develo...
Qinghao
安装
Trunk Code ...
Automated Code Quality for...
Trunk
安装
Machine Learning ...
This extension pack is desig...
WYRX
安装
main.py
environment.yml
main.py > main
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 highlywalkable neighborhoods.")
if __name__ == "__main__":
main()