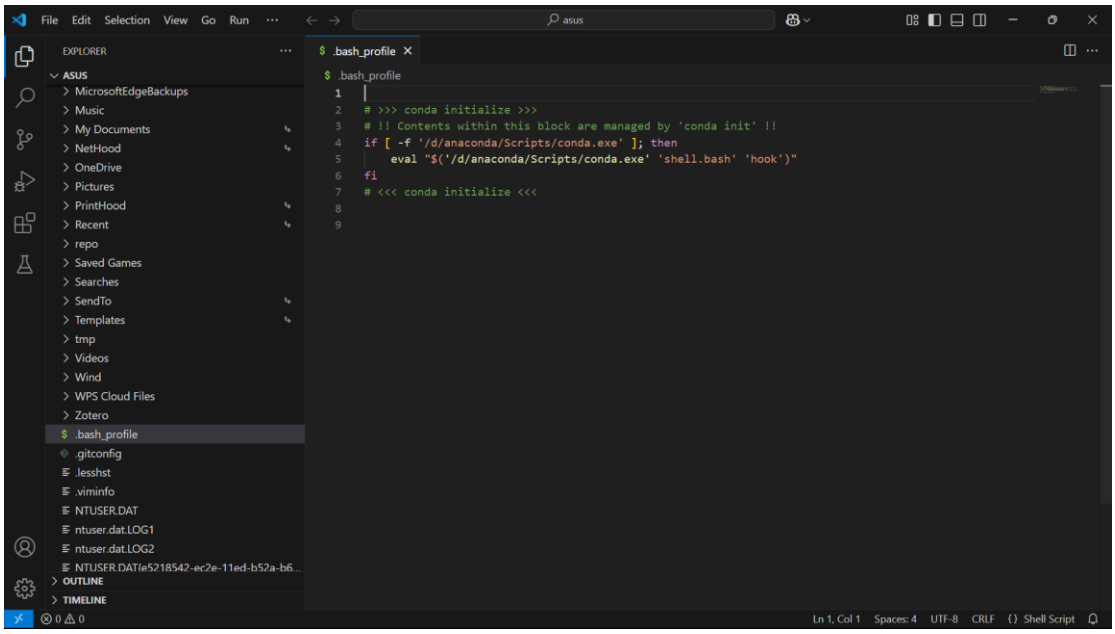
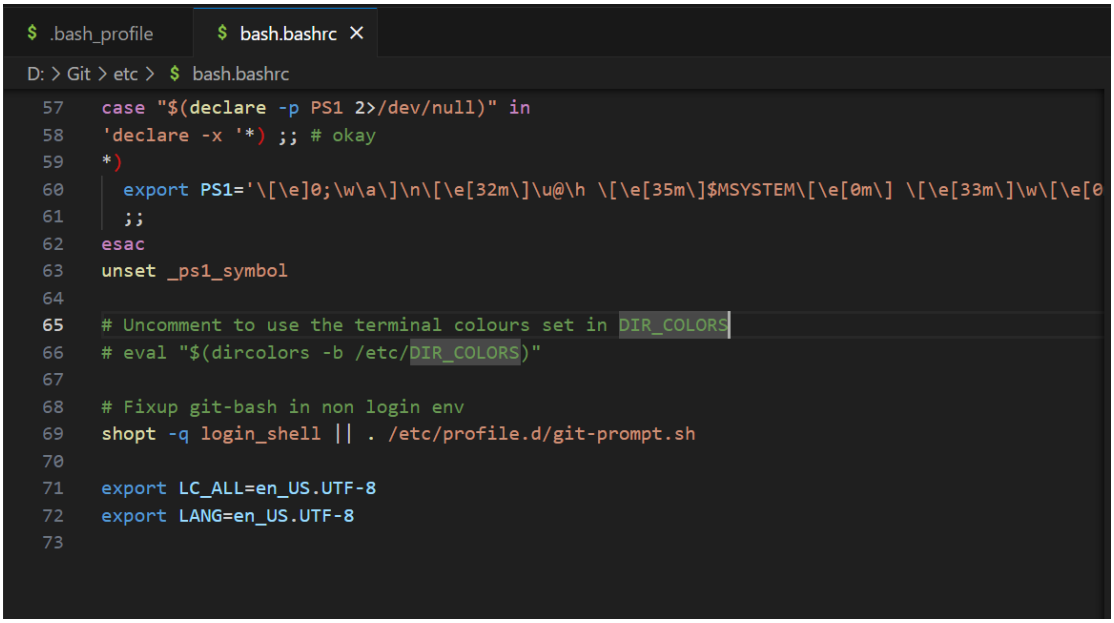
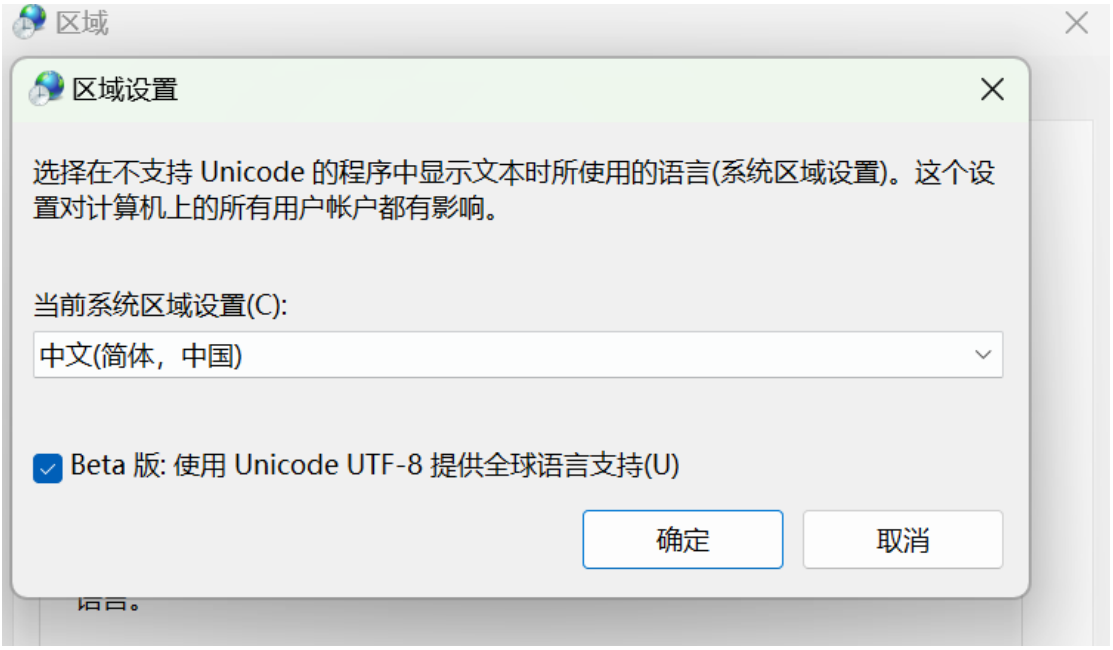
在自己的终端配置 Conda Init

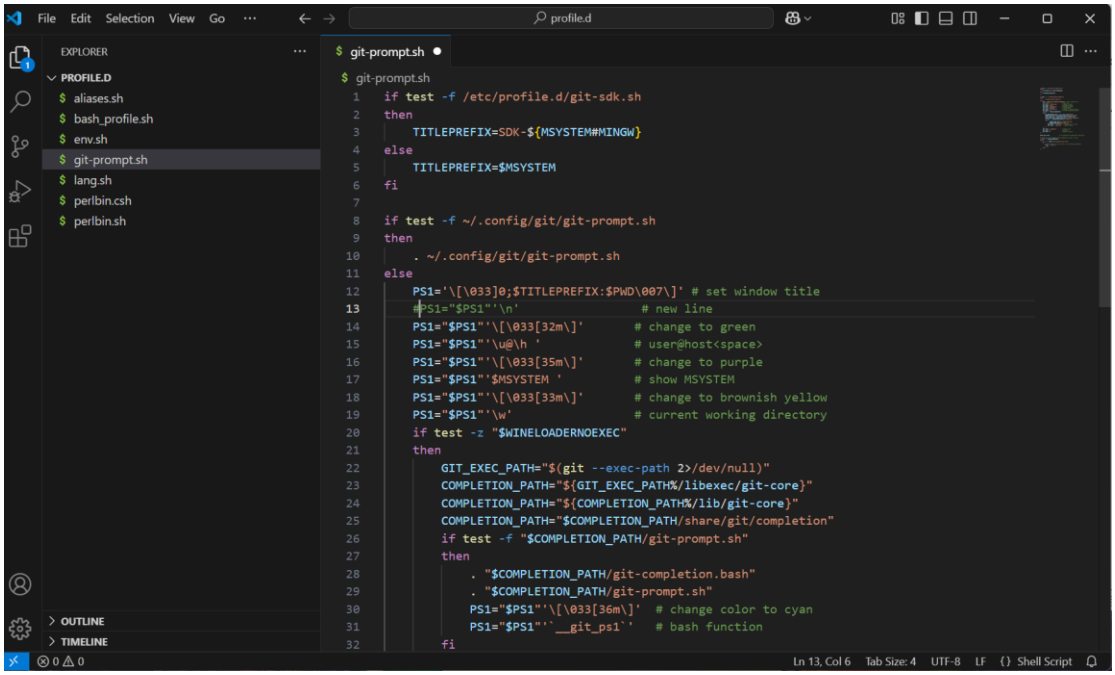


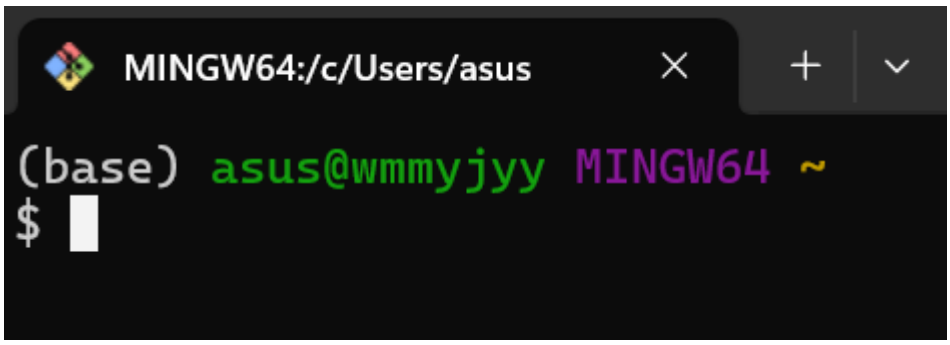
遇到字符编码的错误，询问大模型后在 Conda 配置文件内容，强制使用 utf-8 编码，同时在系统区域设置支持 UTF - 8 编码，问题解决。

```
Exception in thread Thread-5 (_readerthread):
Traceback (most recent call last):
  File "D:\anaconda\Lib\threading.py", line 1075, in _bootstrap_inner
    self.run()
  File "D:\anaconda\Lib\threading.py", line 1012, in run
    self._target(*self._args, **self._kwargs)
  File "D:\anaconda\Lib\subprocess.py", line 1599, in _readerthread
    buffer.append(fh.read())
                  ^^^^^^^^^
UnicodeDecodeError: 'gbk' codec can't decode byte 0xa3 in position 501: illegal multibyte sequence
Unexpected cygpath error, fallback to manual path conversion
  AttributeError: 'NoneType' object has no attribute 'strip'

# >>>>>>>>>>>>>>>>>>>> ERROR REPORT <<<<<<<<<<<<<<<<<<<<

    Traceback (most recent call last):
      File "D:\anaconda\Lib\site-packages\conda\exception_handler.py", line 18, in __call__
        return func(*args, **kwargs)
               ^^^^^^^^^^^^^^^^^^^^^
      File "D:\anaconda\Lib\site-packages\conda\cli\main.py", line 87, in main_sourced
        print(activator.execute(), end="")
    UnicodeEncodeError: 'gbk' codec can't encode character '\u202a' in position 757: illegal multibyte sequence

`$ D:\anaconda\Scripts\conda-script.py shell.posix activate base`

  environment variables:
            ACLOCAL_PATH=D:\Git\mingw64\share\aclocal;D:\Git\usr\share\aclocal
                 CIO_TEST=<not set>
    CONDA_ALLOW_SOFTLINKS=false
              CONDA_EXE=D:/anaconda/Scripts/conda.exe
```

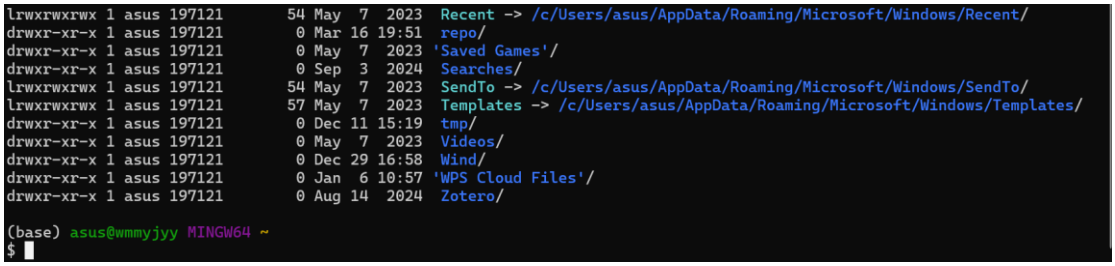

.bash_profile
bash.bashrc
D: > Git > etc > bash.bashrc
57 case "$(declare -p PS1 2>/dev/null)" in
58 'declare -x '*) ;; # okay
59 *)
60 export PS1='\[\e]0;\w\a\]\n\[\e[32m\]\u@\h \[\e[35m\]$MSYSTEM\[\e[0m\] \[\e[33m\]\w\[\e[0
61 ;;
62 esac
63 unset _ps1_symbol
64
65 # Uncomment to use the terminal colours set in DIR_COLORS
66 # eval "$(dircolors -b /etc/DIR_COLORS)"
67
68 # Fixup git-bash in non login env
69 shopt -q login_shell || . /etc/profile.d/git-prompt.sh
70
71 export LC_ALL=en_US.UTF-8
72 export LANG=en_US.UTF-8
73


区域
区域设置
选择在不支持 Unicode 的程序中显示文本时所使用的语言(系统区域设置)。这个设置对计算机上的所有用户帐户都有影响。
当前系统区域设置(C):
中文(简体，中国)
Beta 版: 使用 Unicode UTF-8 提供全球语言支持(U)
确定
取消


File Edit Selection View Go
profile.d
EXPLORER
PROFILE.D
aliases.sh
bash_profile.sh
env.sh
git-prompt.sh
lang.sh
perlbin.csh
perlbin.sh
OUTLINE
TIMELINE
git-prompt.sh
1 if test -f /etc/profile.d/git-sdk.sh
2 then
3 TITLEPREFIX=SDK-${MSYSTEM#MINGW}
4 else
5 TITLEPREFIX=$MSYSTEM
6 fi
7
8 if test -f ~/.config/git/git-prompt.sh
9 then
10 . ~/.config/git/git-prompt.sh
11 else
12 PS1='\[\033]0;$TITLEPREFIX:$PWD\007\]' # set window title
13 #PS1="$PS1"'\n' # new line
14 PS1="$PS1"'\[\033[32m\]' # change to green
15 PS1="$PS1"'\u@\h ' # user@host<space>
16 PS1="$PS1"'\[\033[35m\]' # change to purple
17 PS1="$PS1"'$MSYSTEM ' # show MSYSTEM
18 PS1="$PS1"'\[\033[33m\]' # change to brownish yellow
19 PS1="$PS1"'\w' # current working directory
20 if test -z "$WINELOADERNOEXEC"
21 then
22 GIT_EXEC_PATH="$(git --exec-path 2>/dev/null)"
23 COMPLETION_PATH="${GIT_EXEC_PATH%/libexec/git-core}"
24 COMPLETION_PATH="${COMPLETION_PATH%/lib/git-core}"
25 COMPLETION_PATH="$COMPLETION_PATH/share/git/completion"
26 if test -f "$COMPLETION_PATH/git-prompt.sh"
27 then
28 . "$COMPLETION_PATH/git-completion.bash"
29 . "$COMPLETION_PATH/git-prompt.sh"
30 PS1="$PS1"'\[\033[36m\]' # change color to cyan
31 PS1="$PS1"'`__git_ps1`' # bash function
32 fi
Ln 13, Col 6 Tab Size: 4 UTF-8 LF Shell Script


MINGW64:/c/Users/asus
(base) asus@wmmyjyy MINGW64 ~
$


git-prompt.sh
.bash_profile
C: > Users > asus > .bash_profile
1
2 # >>> conda initialize >>>
3 # !! Contents within this block are managed by 'conda init' !!
4 if [-f '/d/anaconda/Scripts/conda.exe']; then
5 eval "$('/d/anaconda/Scripts/conda.exe' 'shell.bash' 'hook')"
6 fi
7 # <<< conda initialize <<<
8
9 PS1="\n$PS1"


lrwxrwxrwx 1 asus 197121 54 May 7 2023 Recent -> /c/Users/asus/AppData/Roaming/Microsoft/Windows/Recent/
drwxr-xr-x 1 asus 197121 0 Mar 16 19:51 repo/
drwxr-xr-x 1 asus 197121 0 May 7 2023 'Saved Games'/
drwxr-xr-x 1 asus 197121 0 Sep 3 2024 Searches/
lrwxrwxrwx 1 asus 197121 54 May 7 2023 SendTo -> /c/Users/asus/AppData/Roaming/Microsoft/Windows/SendTo/
lrwxrwxrwx 1 asus 197121 57 May 7 2023 Templates -> /c/Users/asus/AppData/Roaming/Microsoft/Windows/Templates/
drwxr-xr-x 1 asus 197121 0 Dec 11 15:19 tmp/
drwxr-xr-x 1 asus 197121 0 May 7 2023 Videos/
drwxr-xr-x 1 asus 197121 0 Dec 29 16:58 Wind/
drwxr-xr-x 1 asus 197121 0 Jan 6 10:57 'WPS Cloud Files'/
drwxr-xr-x 1 asus 197121 0 Aug 14 2024 Zotero/
(base) asus@wmmyjyy MINGW64 ~
$

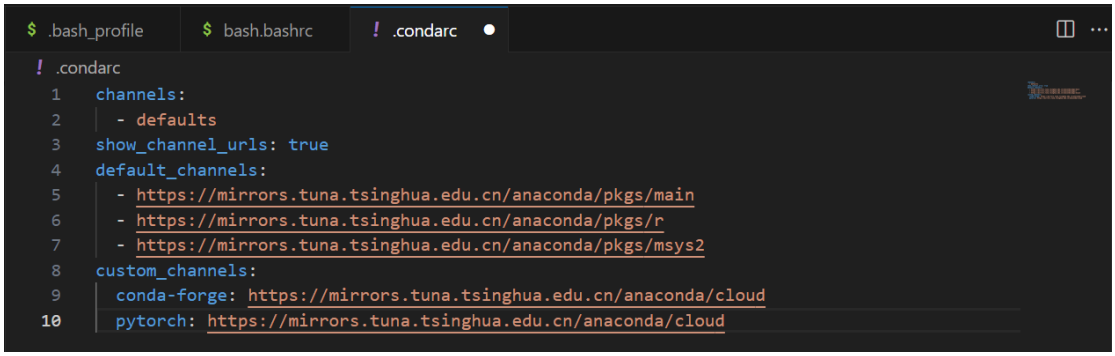
理解 Conda 环境，创建两个 Conda 环境

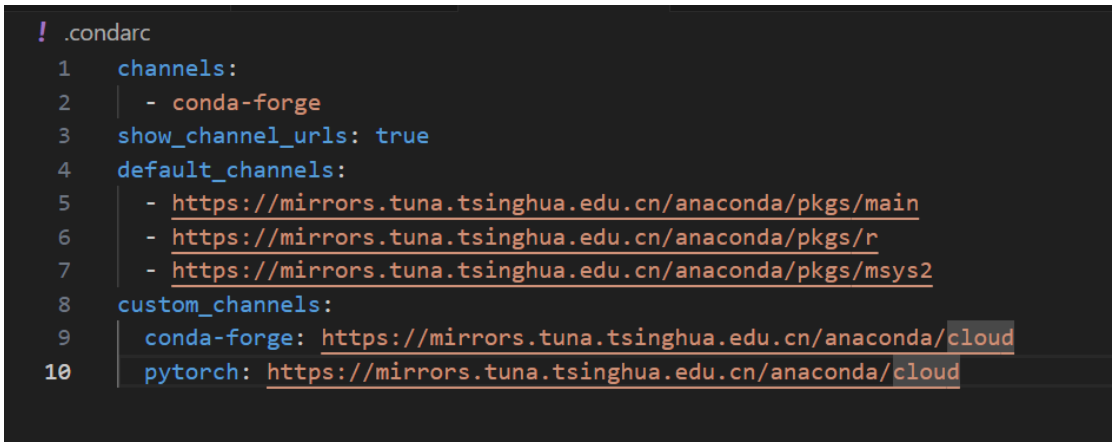
```
Proceed ([y]/n)? y


Downloading and Extracting Packages:

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate prj1
#
# To deactivate an active environment, use
#
#     $ conda deactivate
```

```
(base) asus@wmmyjyy 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:\anaconda\envs\prj2

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

```
(base) asus@wmmyjyy MINGW64 ~
$ conda env list
# conda environments:
#
base                  *  D:\anaconda
prj1                     D:\anaconda\envs\prj1
prj2                     D:\anaconda\envs\prj2


(base) asus@wmmyjyy MINGW64 ~
$ conda activate prj1
(prj1)
asus@wmmyjyy MINGW64 ~
$ which python
/d/anaconda/envs/prj1/python
(prj1)
asus@wmmyjyy MINGW64 ~
$ python --version
Python 3.12.9
(prj1)
asus@wmmyjyy MINGW64 ~
$
```

配置 Anaconda 清华镜像

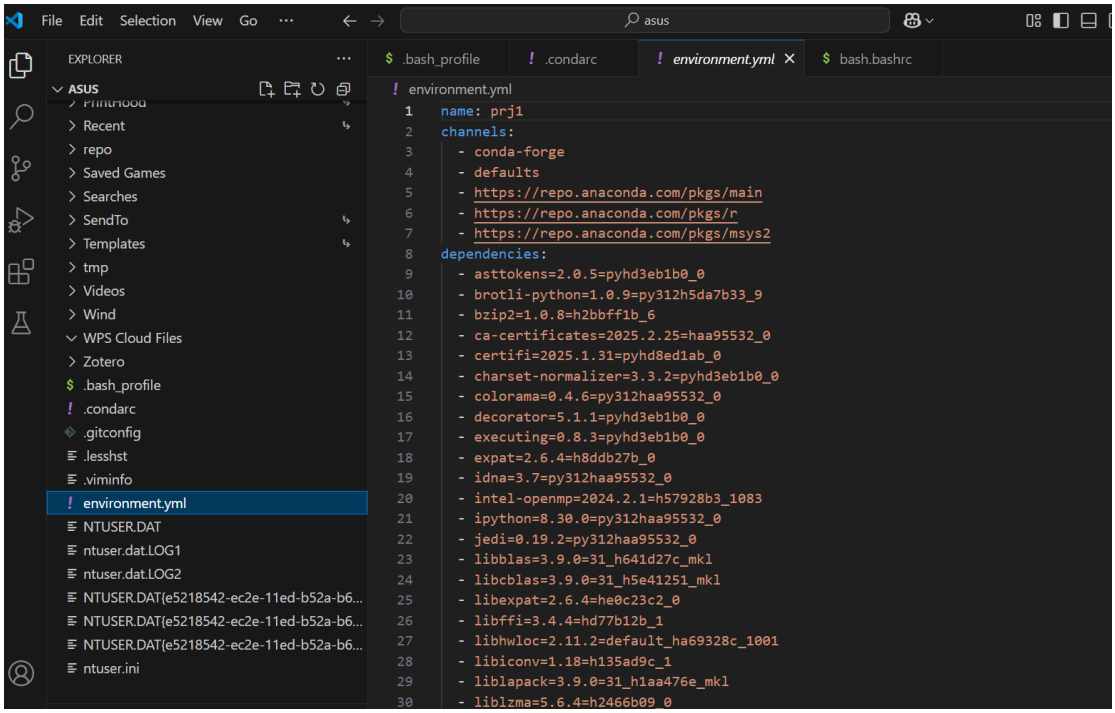




```
asus@wmmyjyy MINGW64 ~
$ pip install tushare
Looking in indexes: https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Collecting tushare
  Downloading https://mirrors.tuna.tsinghua.edu.cn/pypi/web/packages/2b/b1/8aa06e934b778920624047770cc8fd5518a1e9d3066043150a691f71edc1/tushare-1.4.19-py3-none-any.whl (142 kB)
Collecting pandas (from tushare)
  Downloading https://mirrors.tuna.tsinghua.edu.cn/pypi/web/packages/29/d4/1244ab8edf173a10fd601f7e13b9566c1b525c4f365d6bee918e68381889/pandas-2.2.3-cp312-cp312-win_amd64.whl (11.5 MB)
     ---------------------------------------- 11.5/11.5 MB 6.4 MB/s eta 0:00:00
Requirement already satisfied: requests in d:\anaconda\envs\prj1\lib\site-packages (from tushare) (2.32.3)
Collecting lxml (from tushare)
  Downloading https://mirrors.tuna.tsinghua.edu.cn/pypi/web/packages/2b/9c/8abe21585d20ef70ad9cec7562da4332b764ed69ec29b7389d23dfabcea0/lxml-5.3.1-cp312-cp312-win_amd64.whl (3.8 MB)
     ---------------------------------------- 3.8/3.8 MB 6.9 MB/s eta 0:00:00
Collecting simplejson (from tushare)
  Downloading https://mirrors.tuna.tsinghua.edu.cn/pypi/web/packages/bc/5d/4e243e937fa3560107c69f6f7c2eed8589163f5ed14324e864871daa2dd9/simplejson-3.20.1-cp312-cp312-win_amd64.whl (75 kB)
Collecting bs4 (from tushare)
  Downloading https://mirrors.tuna.tsinghua.edu.cn/pypi/web/packages/51/bb/bf7aab772a159614954d84aa832c129624ba6c32faa559dfb200a534e50b/bs4-0.0.2-py2.py3-none-any.whl (1.2 kB)
Collecting websocket-client>=0.57.0 (from tushare)
  Downloading https://mirrors.tuna.tsinghua.edu.cn/pypi/web/packages/5a/84/44687a29792a70e111c5c477230a72c4b957d88d16141199bf9acb7537a3/websocket_client-1.8.0-py3-none-any.whl (58 kB)
```

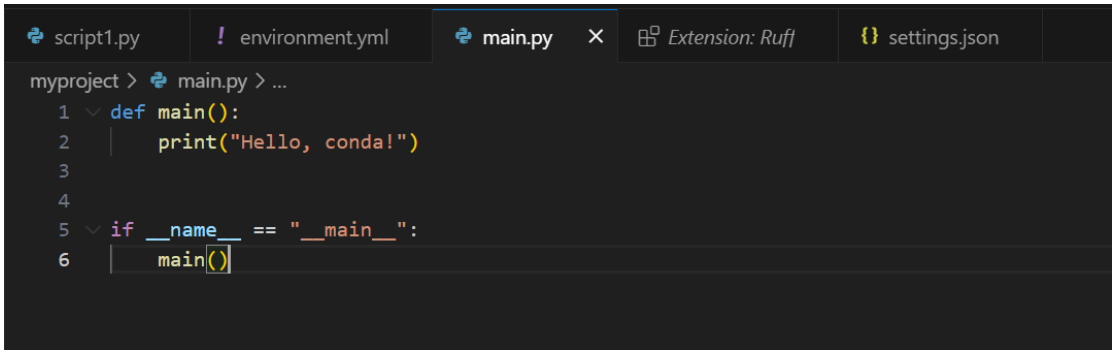
```
asus@wmmyjyy MINGW64 ~
$ conda env export
name: prj1
channels:
  - conda-forge
  - defaults
  - https://repo.anaconda.com/pkgs/main
  - https://repo.anaconda.com/pkgs/r
  - https://repo.anaconda.com/pkgs/msys2
dependencies:
  - asttokens=2.0.5=pyhd3eb1b0_0
  - brotli-python=1.0.9=py312h5da7b33_9
  - 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
```

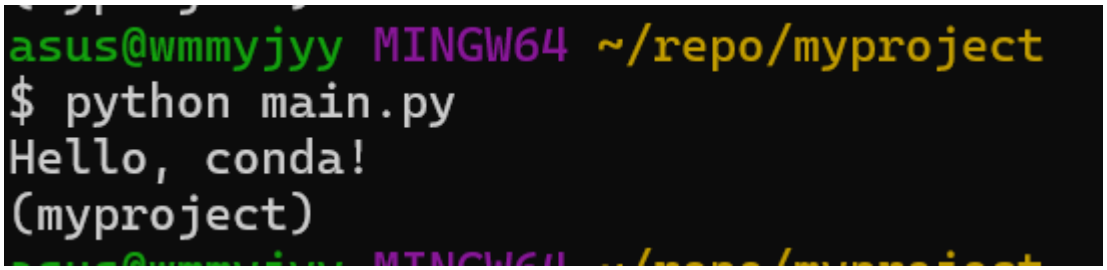
导出环境配置文件，并用环境配置文件重建 Conda 环境




```
(base) asus@wmmyjyy MINGW64 ~/repo/myproject
$ conda env create
D:\anaconda\Lib\argparse.py:2006: FutureWarning: `remote_definition` is deprecated and will be removed in 25.9. Use `con
da 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): done
Solving environment: done

Downloading and Extracting Packages:

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

编写脚本，创建该项目专用的环境，在终端里激活该环境并成功运行该脚本






```
asus@wmmyjyy MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
(myproject)
asus@wmmyjyy MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
2.2.3
D:\anaconda\envs\myproject\Lib\site-packages\pandas\__init__.py
(myproject)
asus@wmmyjyy MINGW64 ~/repo/myproject
$
```