

可能是因为之前没跟视频的原因，出现了一些小问题。

2. 在 Git Bash 中创建或编辑 `~/.bashrc`

1. 打开 Git Bash（一个新的窗口）。
2. 在终端里输入：

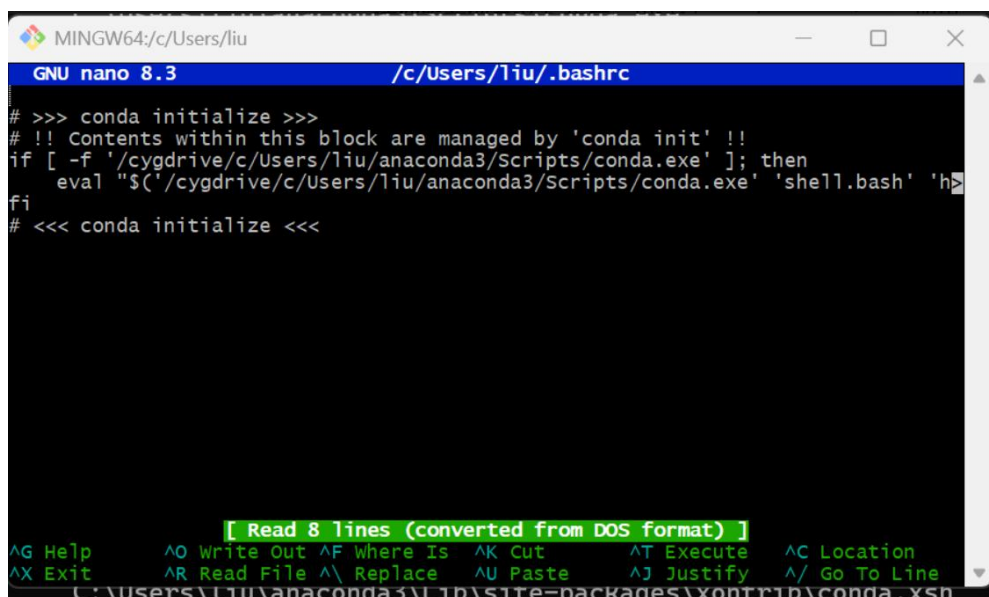
```
bash
nano ~/.bashrc
```

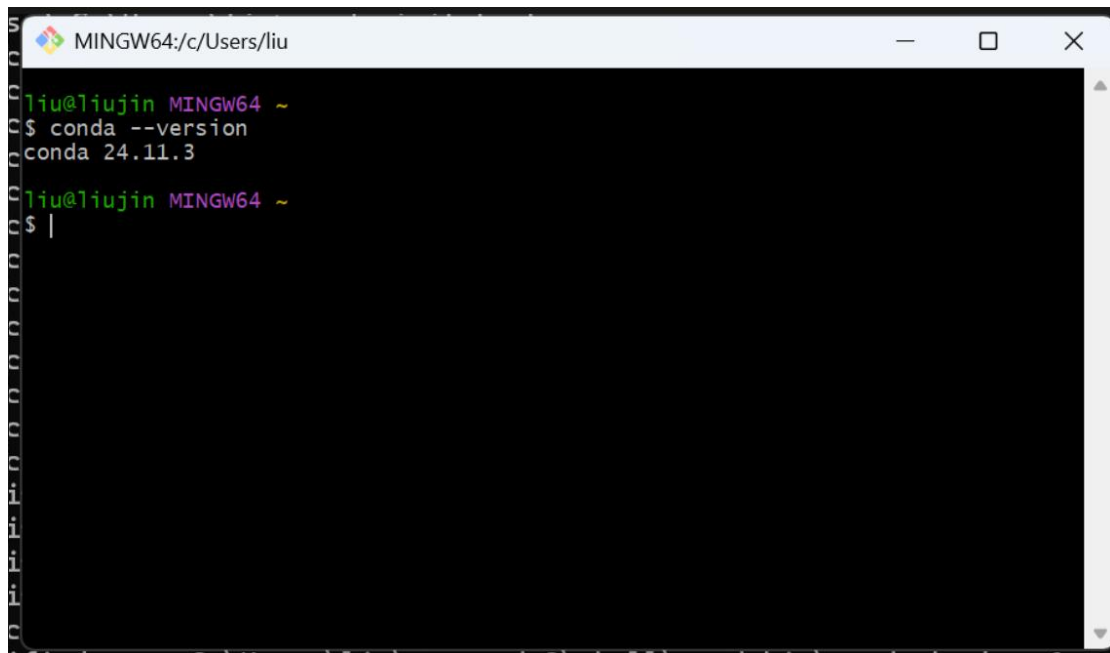
- 如果没有 `nano`，可以换其他编辑器，比如 `vim` 或 `code`。

3. 在文件末尾添加一行

```
bash
source /c/Users/liu/anaconda3/etc/profile.d/conda.sh
```

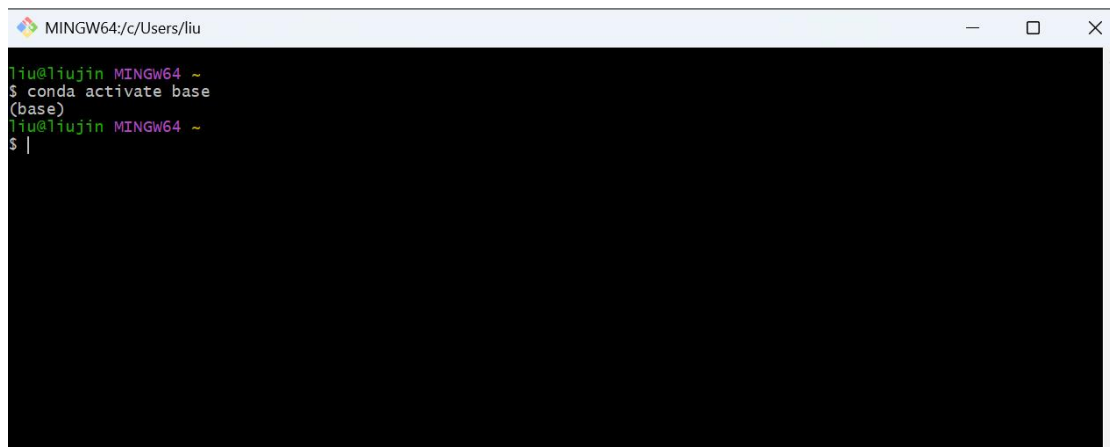
- 这是告诉 Git Bash：每次启动时，都去“执行”`conda.sh`。



A terminal window titled 'MINGW64:/c/Users/liu' with standard window controls. The prompt is 'liu@liujin MINGW64 ~'. The user enters '\$ conda --version' and the output is 'conda 24.11.3'. The prompt returns to 'liu@liujin MINGW64 ~' with a cursor on a new line.

```
liu@liujin MINGW64 ~  
$ conda --version  
conda 24.11.3  
liu@liujin MINGW64 ~  
$ |
```

终于改好了

A terminal window titled 'MINGW64:/c/Users/liu' with standard window controls. The prompt is 'liu@liujin MINGW64 ~'. The user enters '\$ conda activate base' and the output is '(base)'. The prompt returns to 'liu@liujin MINGW64 ~' with a cursor on a new line.

```
liu@liujin MINGW64 ~  
$ conda activate base  
(base)  
liu@liujin MINGW64 ~  
$ |
```

```
Python version: 3.9.21 (main, Dec 11 2024, 16:35:24) [MSC V.1929 64 bit (AMD64)]
(pybasic)
liu@liujin MINGW64 ~
$ conda info

      active environment : pybasic
      active env location : C:\Users\liu\anaconda3\envs\pybasic
            shell level   : 2
      user config file     : C:\Users\liu\.condarc
 populated config files   : C:\Users\liu\anaconda3\.condarc
                           C:\Users\liu\.condarc
      conda version        : 24.11.3
      conda-build version  : 24.9.0
      python version       : 3.12.7.final.0
      solver               : libmamba (default)
 virtual packages         : __archspec=1=skylake
                           __conda=24.11.3=0
                           __win=0=0

      base environment     : C:\Users\liu\anaconda3 (writable)
      conda av data dir    : C:\Users\liu\anaconda3\etc\conda
      conda av metadata url : None
      channel URLs         : https://repo.anaconda.com/pkgs/main/win-64
                           https://repo.anaconda.com/pkgs/main/noarch
                           https://repo.anaconda.com/pkgs/r/win-64
                           https://repo.anaconda.com/pkgs/r/noarch
                           https://repo.anaconda.com/pkgs/msys2/win-64
                           https://repo.anaconda.com/pkgs/msys2/noarch
      package cache        : C:\Users\liu\anaconda3\pkgs
                           C:\Users\liu\.conda\pkgs
                           C:\Users\liu\AppData\Local\conda\conda\pkgs
      envs directories     : C:\Users\liu\anaconda3\envs
                           C:\Users\liu\.conda\envs
                           C:\Users\liu\AppData\Local\conda\conda\envs
      platform             : win-64
      user-agent           : conda/24.11.3 requests/2.32.3 CPython/3.12.7 Windows/11 Windows/10.0.26100 solver/libma
mamba conda-libmamba-solver/24.9.0 libmambapy/1.5.8 aau/0.4.4 c/ITPcWkd-swYPwcmTT_K1SA s/AvfTg9LMzvDMYJaIGgwGOA e/E
eouBt4oBMUn5T-AoFFIKA
      administrator       : False
      netrc file          : None
      offline mode        : False

(pybasic)
liu@liujin MINGW64 ~
$ |
```

查看本机 Conda 的配置信息

```
MINGW64:/c/Users/liu
liu@liujin MINGW64 ~
$ conda activate base
(base)
liu@liujin MINGW64 ~
$ conda create -n pybasic python=3.9
Channels:
 - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: C:\Users\liu\anaconda3\envs\pybasic

added / updated specs:
 - python=3.9

The following packages will be downloaded:



| package                    | build          |         |
|----------------------------|----------------|---------|
| pip-25.0                   | py39haa95532_0 | 2.5 MB  |
| python-3.9.21              | h8205438_1     | 19.6 MB |
| setuptools-75.8.0          | py39haa95532_0 | 1.7 MB  |
| tzdata-2025a               | h04d1e81_0     | 117 KB  |
| vc-14.42                   | haa95532_4     | 11 KB   |
| vs2015_runtime-14.42.34433 | he0abc0d_4     | 1.2 MB  |
| wheel-0.45.1               | py39haa95532_0 | 145 KB  |
| Total:                     |                | 25.2 MB |



The following NEW packages will be INSTALLED:



|                 |                                                         |
|-----------------|---------------------------------------------------------|
| ca-certificates | pkgs/main/win-64::ca-certificates-2025.2.25-haa95532_0  |
| openssl         | pkgs/main/win-64::openssl-3.0.16-h3f729d1_0             |
| pip             | pkgs/main/win-64::pip-25.0-py39haa95532_0               |
| python          | pkgs/main/win-64::python-3.9.21-h8205438_1              |
| setuptools      | pkgs/main/win-64::setuptools-75.8.0-py39haa95532_0      |
| sqlite          | pkgs/main/win-64::sqlite-3.45.3-h2bbff1b_0              |
| tzdata          | pkgs/main/noarch::tzdata-2025a-h04d1e81_0               |
| vc              | pkgs/main/win-64::vc-14.42-haa95532_4                   |
| vs2015_runtime  | pkgs/main/win-64::vs2015_runtime-14.42.34433-he0abc0d_4 |
| wheel           | pkgs/main/win-64::wheel-0.45.1-py39haa95532_0           |



Proceed ([y]/n)?

Downloading and Extracting Packages:
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
# $ conda activate pybasic
#
# To deactivate an active environment, use
#
# $ conda deactivate

(base)
liu@liujin MINGW64 ~
$ y
```

创建一个名叫“pybasic”的新环境，并安装 Python 3.9。

```
(base)
liu@liujin MINGW64 ~
$ conda activate pybasic
(pybasic)
liu@liujin MINGW64 ~
$ python --version
Python 3.9.21
(pybasic)
liu@liujin MINGW64 ~
$ |
```

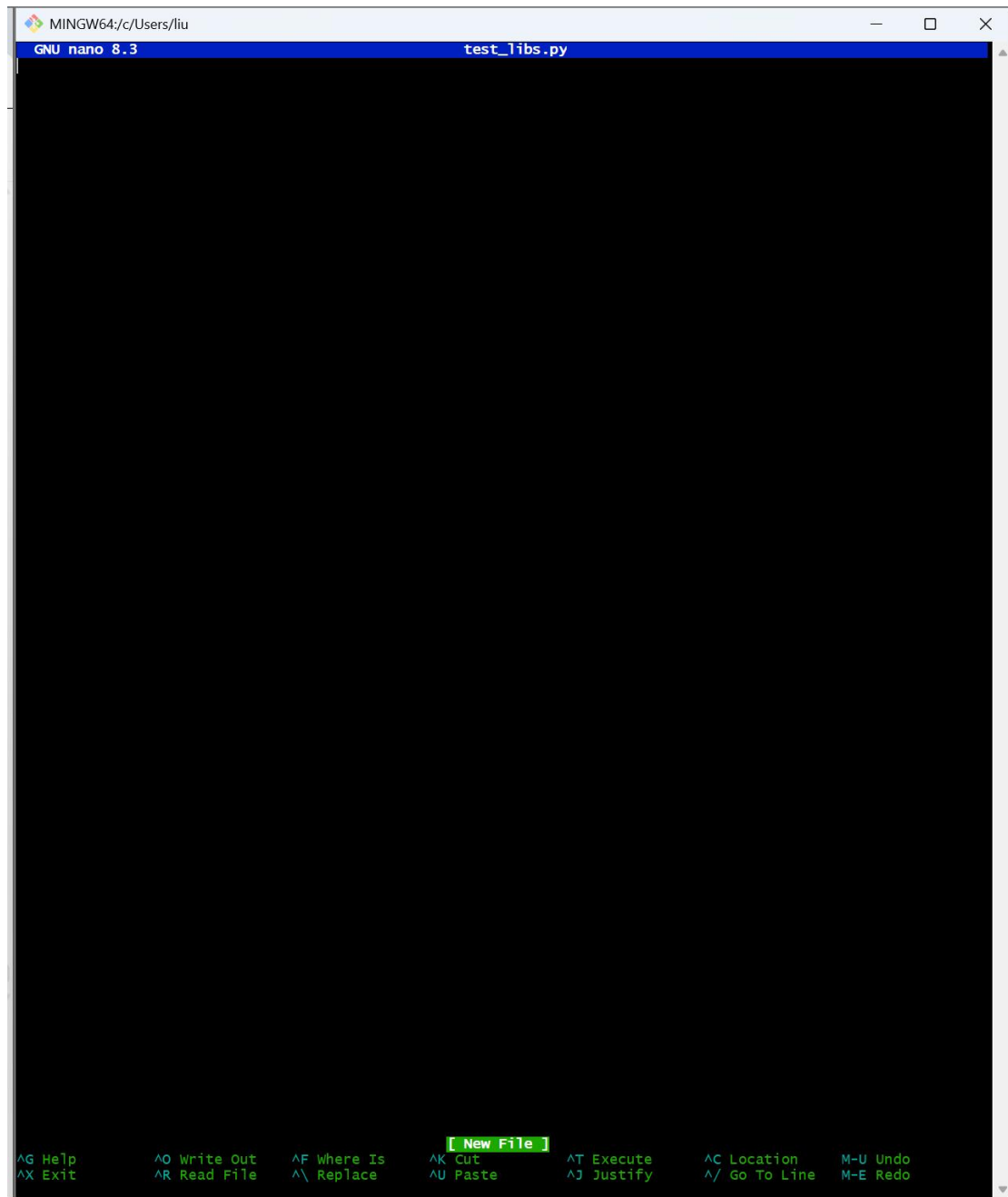
激活 pybasic 环境

```
MINGW64:/c/Users/liu
pybasic * C:\Users\liu\anaconda3\envs\pybasic
(pybasic)
liu@liujin MINGW64 ~
$ conda install numpy requests
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
done
(pybasic)
liu@liujin MINGW64 ~
$ conda list
# packages in environment at C:\Users\liu\anaconda3\envs\pybasic:
#
# Name                                Version                                Build                                Channel
blas                                  1.0                                    mk1
brotli-python                        1.0.9                                py39h5da7b33_9
ca-certificates                      2025.2.25                            haa95532_0
certifi                              2025.1.31                            py39haa95532_0
charset-normalizer                   3.3.2                                pyhd3eb1b0_0
idna                                  3.7                                   py39haa95532_0
intel-openmp                         2023.1.0                             h59b6b97_46320
mk1                                   2023.1.0                             h6b88ed4_46358
mk1-service                          2.4.0                                py39h827c3e9_2
mk1_ffft                             1.3.11                              py39h827c3e9_0
mk1_random                           1.2.8                                py39hc64d2fc_0
numpy                                 2.0.2                                py39h055cbcc_0
numpy-base                           2.0.2                                py39h65a83cf_0
openssl                               3.0.16                              h3f729d1_0
pip                                   25.0                                 py39haa95532_0
pysocks                              1.7.1                                py39haa95532_0
python                               3.9.21                              h8205438_1
requests                             2.32.3                              py39haa95532_1
setuptools                           72.1.0                              py39haa95532_0
sqlite                                3.45.3                              h2bbff1b_0
tbb                                   2021.8.0                            h59b6b97_0
tzdata                               2025a                               h04d1e81_0
urllib3                              2.3.0                                py39haa95532_0
vc                                     14.42                               haa95532_4
vs2015_runtime                       14.42.34433                         he0abc0d_4
wheel                                 0.45.1                              py39haa95532_0
win_inet_pton                        1.1.0                                py39haa95532_0
(pybasic)
liu@liujin MINGW64 ~
$ |
```

在 pybasic 环境中安装一些常用库

```
(base)
liu@liujin MINGW64 ~
$ conda activate pybasic
(pybasic)
liu@liujin MINGW64 ~
$ python --version
Python 3.9.21
(pybasic)
liu@liujin MINGW64 ~
$ cd /c/Users/liu
(pybasic)
liu@liujin MINGW64 ~
$ nano test.py
(pybasic)
liu@liujin MINGW64 ~
$ python test.py
Hello from pybasic environment!
Python version: 3.9.21 (main, Dec 11 2024, 16:35:24) [MSC v.1929 64 bit (AMD64)]
(pybasic)
liu@liujin MINGW64 ~
$
```

在 Git Bash 中新建并编写脚本



```
import numpy as np
```

```
import requests
```

```
# 测试 numpy
```

```
arr = np.array([1, 2, 3, 4])
```

```
print("NumPy array:", arr)
```

```
# 测试 requests
```

```
response = requests.get("https://httpbin.org/get")
```

```
print("Requests response status code:", response.status_code)
```

```

win_inet_pton          1.1.0          py39haa95532_0
(pybasic)
liu@liujin MINGW64 ~
$ nano test_libs.py
(pybasic)
liu@liujin MINGW64 ~
$ python test_libs.py
NumPy array: [1 2 3 4]
Requests response status code: 200
(pybasic)
liu@liujin MINGW64 ~
$

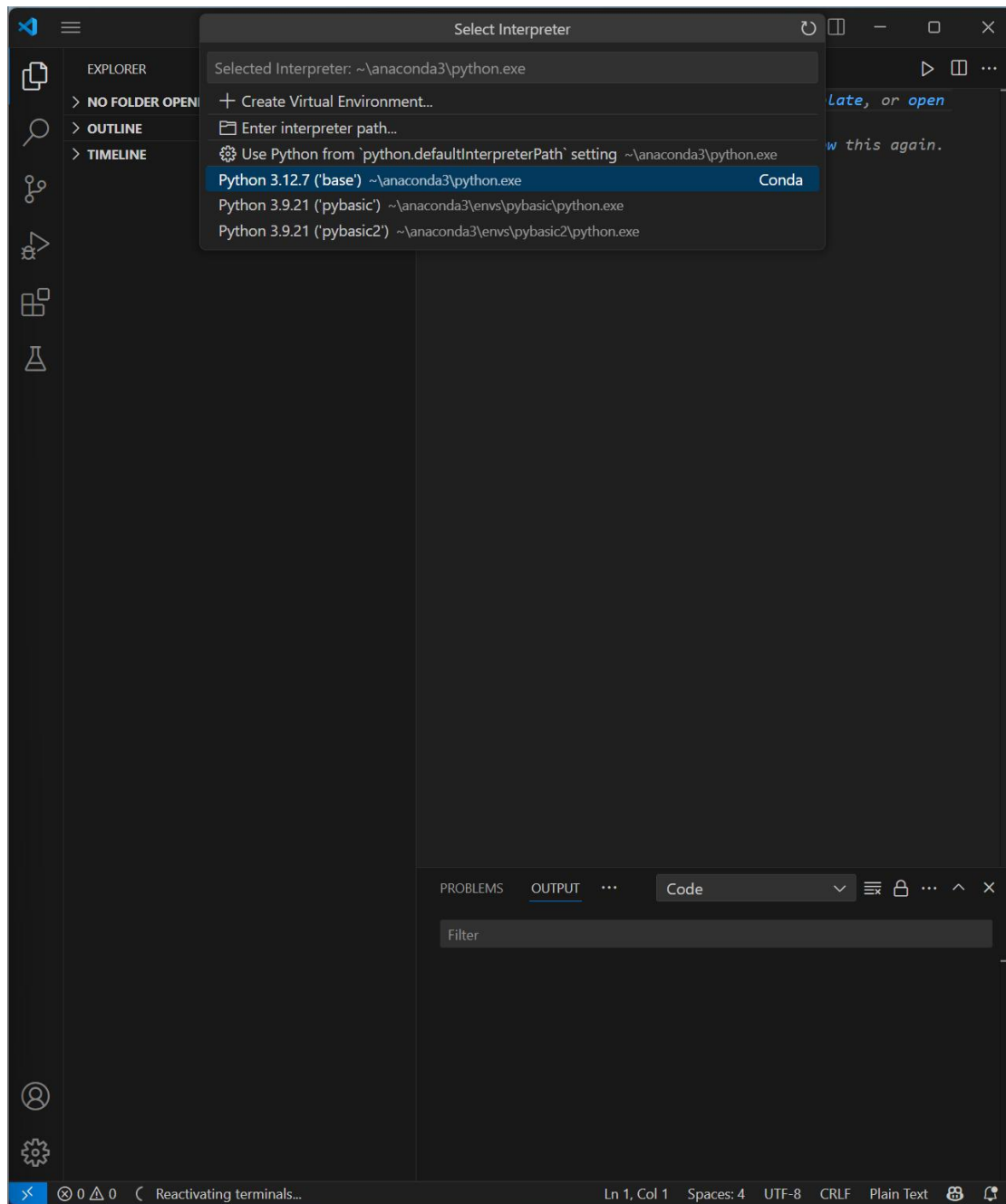
```

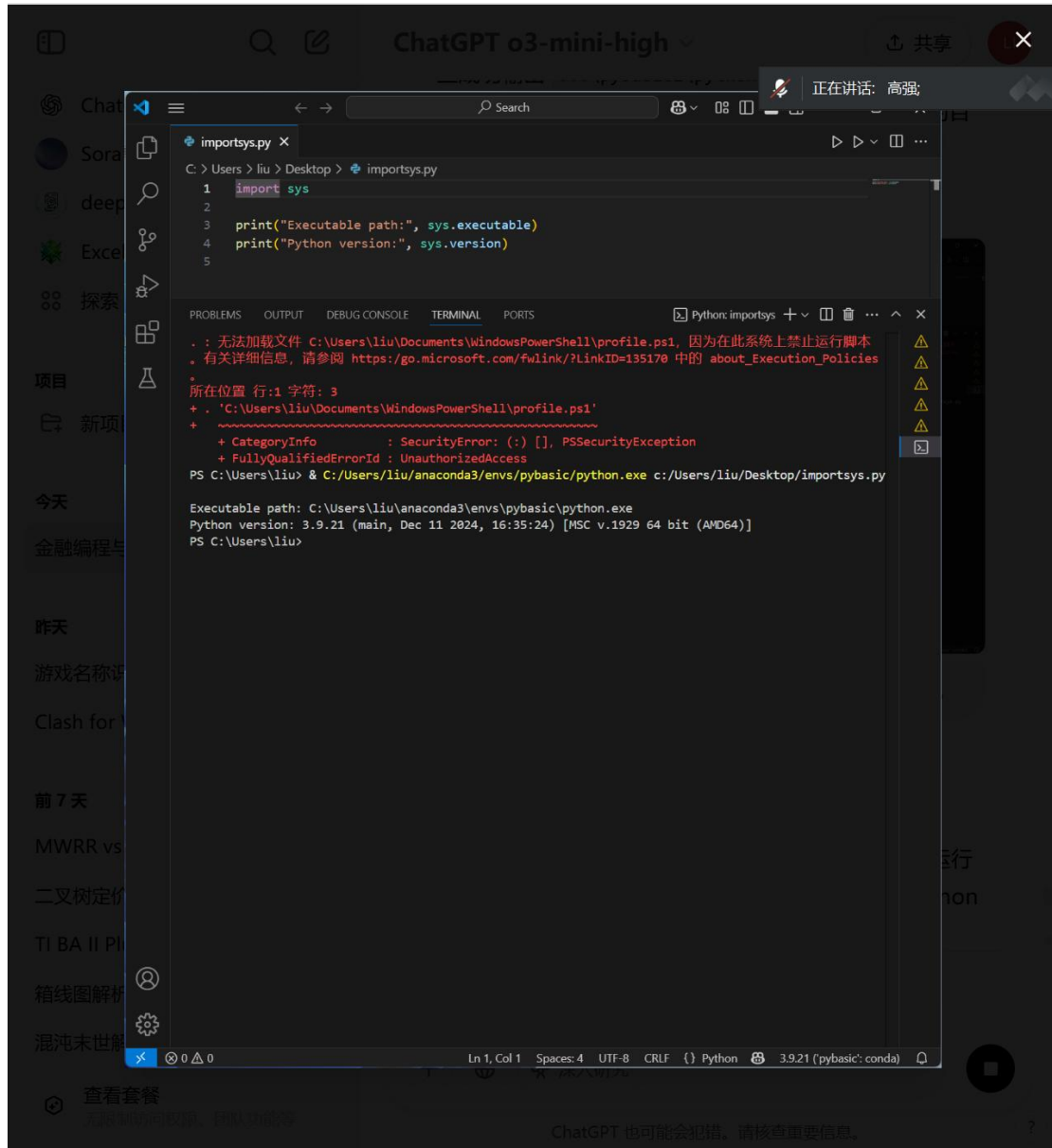
```

(pybasic)
liu@liujin MINGW64 ~
$ nano test_libs.py
(pybasic)
liu@liujin MINGW64 ~
$ python test_libs.py
NumPy array: [1 2 3 4]
Requests response status code: 200
(pybasic)
liu@liujin MINGW64 ~
$ conda activate pybasic
(pybasic)
liu@liujin MINGW64 ~
$ conda env export > environment.yml
(pybasic)
liu@liujin MINGW64 ~
$ cat environment.yml
name: pybasic
channels:
  - defaults
  - https://repo.anaconda.com/pkgs/main
  - https://repo.anaconda.com/pkgs/r
  - https://repo.anaconda.com/pkgs/msys2
dependencies:
  - blas=1.0=mk1
  - brotli-python=1.0.9=py39h5da7b33_9
  - ca-certificates=2025.2.25=haa95532_0
  - certifi=2025.1.31=py39haa95532_0
  - charset-normalizer=3.3.2=pyhd3eb1b0_0
  - idna=3.7=py39haa95532_0
  - intel-openmp=2023.1.0=h59b6b97_46320
  - mk1=2023.1.0=h6b88ed4_46358
  - mk1-service=2.4.0=py39h827c3e9_2
  - mk1_fft=1.3.11=py39h827c3e9_0
  - mk1_random=1.2.8=py39hc64d2fc_0
  - numpy=2.0.2=py39h055cbcc_0
  - numpy-base=2.0.2=py39h65a83cf_0
  - openssl=3.0.16=h3f729d1_0
  - pip=25.0=py39haa95532_0
  - pysocks=1.7.1=py39haa95532_0
  - python=3.9.21=h8205438_1
  - requests=2.32.3=py39haa95532_1
  - setuptools=72.1.0=py39haa95532_0
  - sqlite=3.45.3=h2bbff1b_0
  - tbb=2021.8.0=h59b6b97_0
  - tzdata=2025a=h04d1e81_0
  - urllib3=2.3.0=py39haa95532_0
  - vc=14.42=haa95532_4
  - vs2015_runtime=14.42.34433=he0abc0d_4
  - wheel=0.45.1=py39haa95532_0
  - win_inet_pton=1.1.0=py39haa95532_0
prefix: C:\Users\liu\anaconda3\envs\pybasic
(pybasic)
liu@liujin MINGW64 ~
$

```

导出 environment.yml Conda 环境配置文件，能够删除 Conda 环境，能够用 environment.yml 配置文件重建 Conda 环境





出现了一个问题。

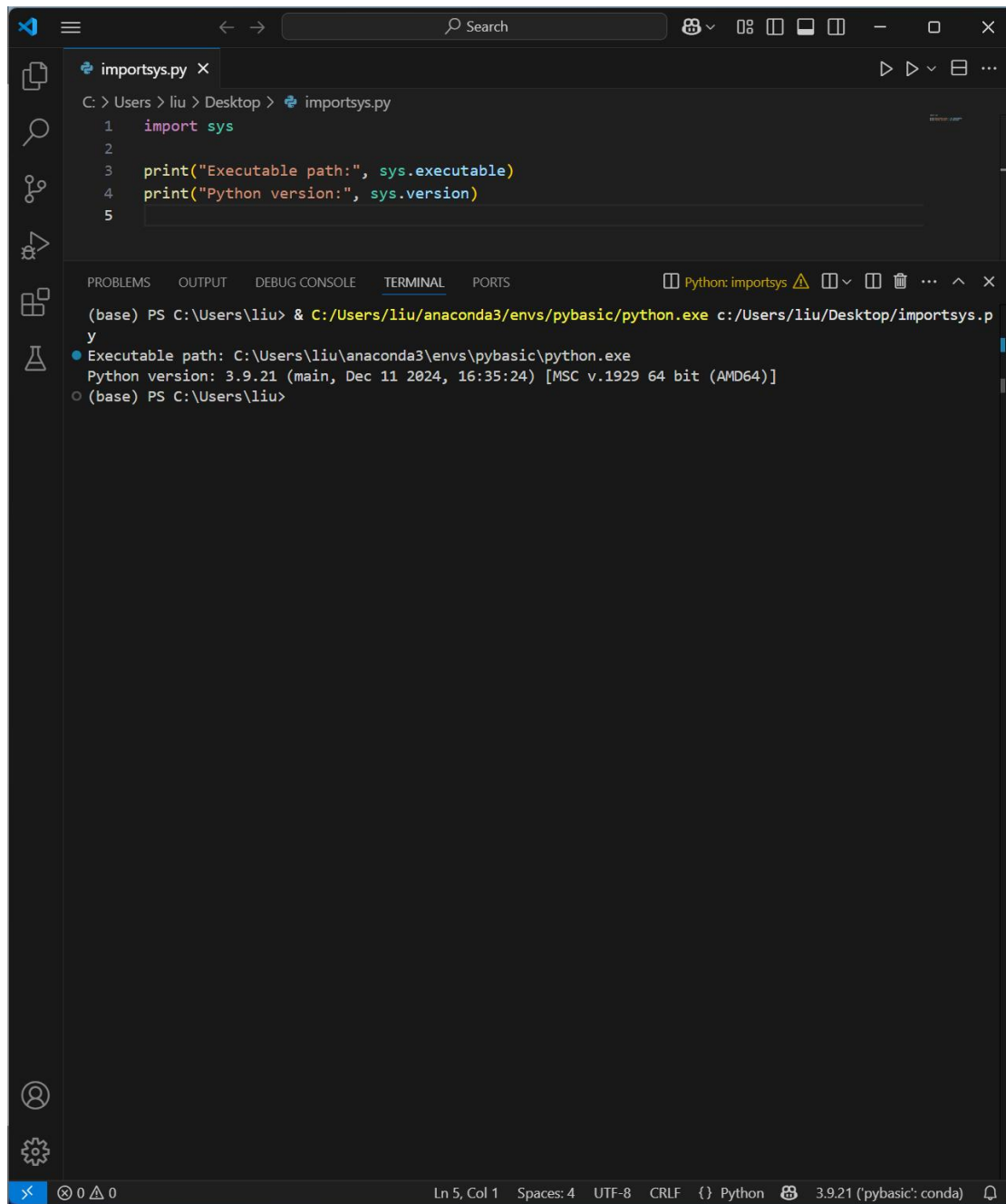
```
管理员: Windows PowerShell
版权所有 (C) Microsoft Corporation。保留所有权利。

安装最新的 PowerShell，了解新功能和改进！ https://aka.ms/PSWindows

. : 无法加载文件 C:\Users\liu\Documents\WindowsPowerShell\profile.ps1，因为在此系统上禁止运行脚本。有关
详细信息，请参阅
https://go.microsoft.com/fwlink/?LinkID=135170 中的 about_Execution_Policies。
所在位置 行:1 字符: 3
+ . 'C:\Users\liu\Documents\WindowsPowerShell\profile.ps1'
+ ~~~~~
+ CategoryInfo          : SecurityError: (:) [], PSSecurityException
+ FullyQualifiedErrorId : UnauthorizedAccess

PS C:\Windows\system32> Set-ExecutionPolicy RemoteSigned -Scope CurrentUser

执行策略更改
执行策略可帮助你防止执行不信任的脚本。更改执行策略可能会产生安全风险，如
https://go.microsoft.com/fwlink/?LinkID=135170 中的 about_Execution_Policies
帮助主题所述。是否要更改执行策略？
[Y] 是(Y) [A] 全是(A) [N] 否(N) [L] 全否(L) [s] 暂停(S) [?] 帮助 (默认值为“N”)： _
```



The image shows a Visual Studio Code (VS Code) editor window. The top part of the window displays a Python file named `importsys.py` with the following code:

```
1 import sys
2
3 print("Executable path:", sys.executable)
4 print("Python version:", sys.version)
5
```

The bottom part of the window shows the **TERMINAL** panel. The terminal output shows the command being executed and the resulting output:

```
(base) PS C:\Users\liu> & C:/Users/liu/anaconda3/envs/pybasic/python.exe c:/Users/liu/Desktop/importsys.py
Executable path: C:\Users\liu\anaconda3\envs\pybasic\python.exe
Python version: 3.9.21 (main, Dec 11 2024, 16:35:24) [MSC v.1929 64 bit (AMD64)]
(base) PS C:\Users\liu>
```

The status bar at the bottom of the window indicates the current file is `Ln 5, Col 1`, with `Spaces: 4`, `UTF-8` encoding, `CRLF` line endings, and the Python interpreter is set to `3.9.21 ('pybasic': conda)`.

似乎解决了