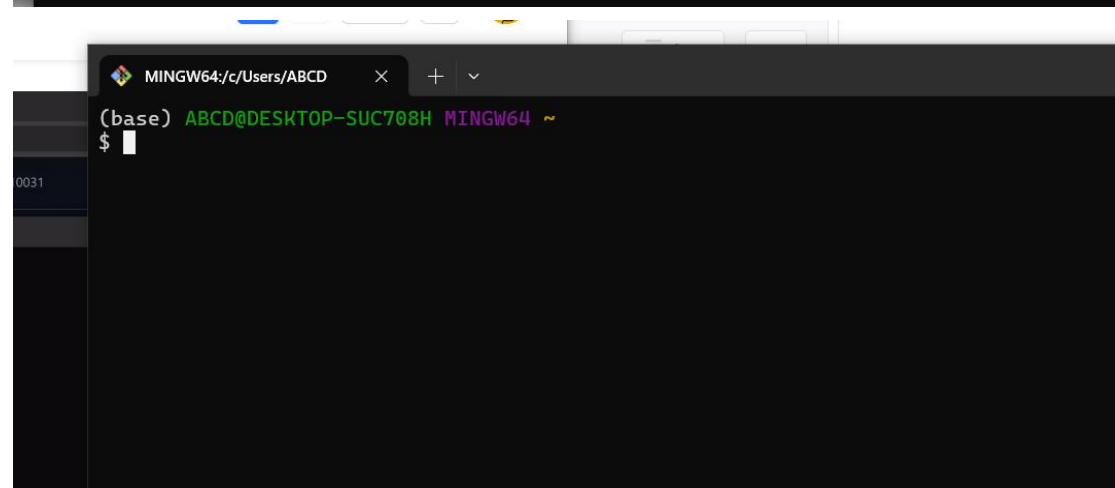
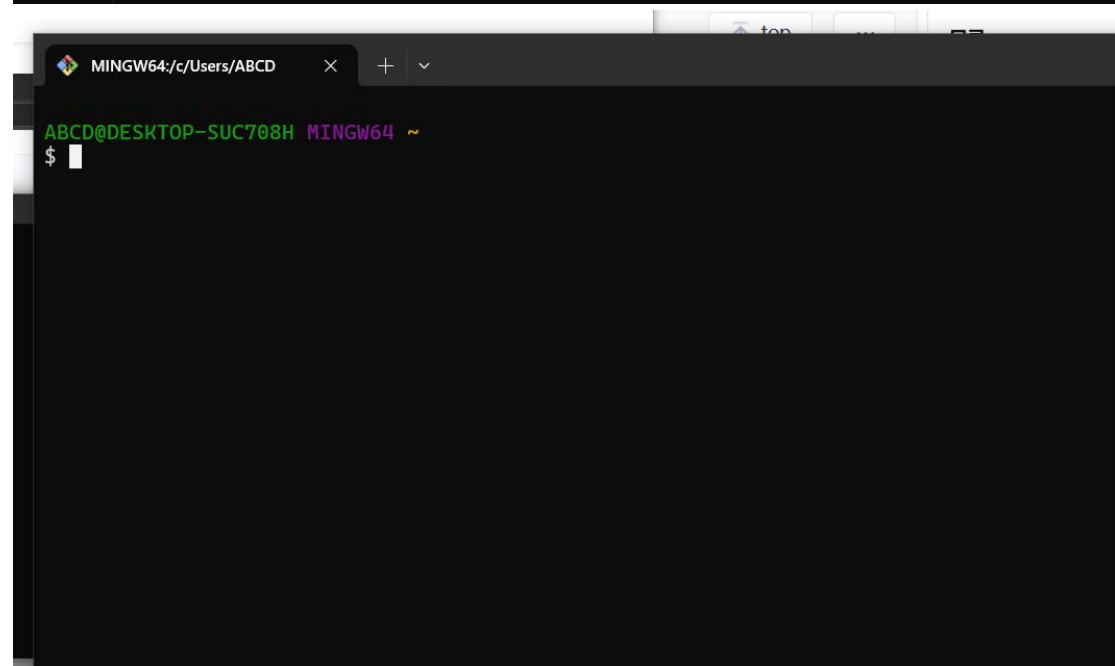
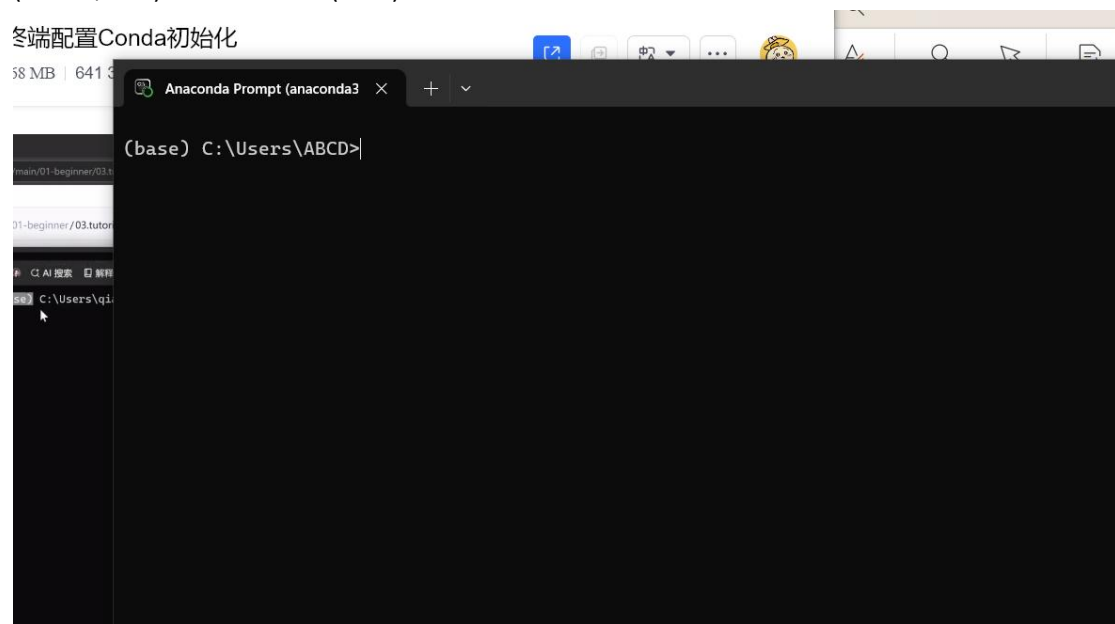


- 1、在自己的终端（比如 Git Bash、Zsh 等）配置好 Conda Init，使得启动终端后，在提示符（比如 \$、%）前能够看到 (base)

终端配置Conda初始化



```
MINGW64/c/Users/ABCD x + v
(base) ABCD@DESKTOP-SUC708H MINGW64 ~
$ code .
node:internal/modules/cjs/loader:1235
  throw err;
  ^
Error: Cannot find module 'C:\Users\ABCD\anaconda3\Library\c\Users\ABCD\AppData\Local\Programs\Microsoft VS
es\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) ABCD@DESKTOP-SUC708H MINGW64 ~
$ echo $PS1
(base) \[\033]0;$TITLEPREFIX:$PWD\007\[\033[32m\]\u\h \[\033[35m\]$MSYSTEM \[\033[33m\]\w\[\033[36m\]'...'
3[0m\]\n$
(base) ABCD@DESKTOP-SUC708H MINGW64 ~
$
```

题。首先,

2、使用 conda info 命令查看本机 Conda 的配置信息

CtrlI 清空

```
(base) ABCD@DESKTOP-SUC708H MINGW64 ~
$ conda info

active environment : base
active env location : C:\Users\ABCD\anaconda3
shell level : 1
user config file : C:\Users\ABCD\.condarc
populated config files : C:\Users\ABCD\anaconda3\.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_v4
                  __conda=24.9.2=0
                  __cuda=11.2=0
                  __win=0=0

base environment : C:\Users\ABCD\anaconda3 (writable)
conda av data dir : C:\Users\ABCD\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\ABCD\anaconda3\pkgs
                 C:\Users\ABCD\.conda\pkgs
```

3、使用 conda env list 命令查看已有的 Conda 环境的名称和路径,理解 Conda 环境的概念

```
(base) ABCD@DESKTOP-SUC708H MINGW64 ~
$ conda env list
# conda environments:
#
base * C:\Users\ABCD\anaconda3

(base) ABCD@DESKTOP-SUC708H MINGW64 ~
$
```

4、使用 `conda create` 命令创建两个 Conda 环境，一个里面安装 Python 3.12 和 `requests` 软件包，另一个里面安装 Python 3.9、`pandas` 和 `statsmodels` 软件包，能够在终端里切换 Conda 环境，验证 Python 和软件包的版本

`Conda create -n prj1 python=13.2 requests`

第一个 python

此电脑 > Windows 10 (C:) > 用户 > ABCD > anaconda3 > envs > pyth1					在 pyth1 中搜索	
	名称	修改日期	类型	大小		
	conda-meta	2025/3/20 12:06	文件夹			
	DLLs	2025/3/20 12:06	文件夹			
	etc	2025/3/20 12:06	文件夹			
	include	2025/3/20 12:06	文件夹			
	Lib	2025/3/20 12:06	文件夹			
	Library	2025/3/20 12:06	文件夹			
	libs	2025/3/20 12:06	文件夹			
	Scripts	2025/3/20 12:06	文件夹			
	share	2025/3/20 12:06	文件夹			
	Tools	2025/3/20 12:06	文件夹			
	.nonadmin	2025/3/20 12:06	NONADMIN 文件	0 KB		
	api-ms-win-core-console-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-console-l1-2-0.dll	2024/2/22 4:59	应用程序扩展	22 KB		
	api-ms-win-core-datetime-l1-1-0.dll	2024/2/22 4:36	应用程序扩展	22 KB		
	api-ms-win-core-debug-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-errorhandling-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-fibers-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-file-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	26 KB		
	api-ms-win-core-file-l1-2-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-file-l2-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-handle-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-heap-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-interlocked-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-libraryloader-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-localization-l1-2-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-memory-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-namedpipe-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-processenv-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		

第二个 python

此电脑 > Windows 10 (C:) > 用户 > ABCD > anaconda3 > envs > pyth2 >					在 pyth2 中搜索	
	名称	修改日期	类型	大小		
	conda-meta	2025/3/20 12:10	文件夹			
	DLLs	2025/3/20 12:10	文件夹			
	etc	2025/3/20 12:10	文件夹			
	include	2025/3/20 12:10	文件夹			
	Lib	2025/3/20 12:10	文件夹			
	Library	2025/3/20 12:10	文件夹			
	libs	2025/3/20 12:10	文件夹			
	Scripts	2025/3/20 12:10	文件夹			
	share	2025/3/20 12:10	文件夹			
	tcl	2025/3/20 12:10	文件夹			
	Tools	2025/3/20 12:10	文件夹			
	.nonadmin	2025/3/20 12:10	NONADMIN 文件	0 KB		
	api-ms-win-core-console-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-console-l1-2-0.dll	2024/2/22 4:59	应用程序扩展	22 KB		
	api-ms-win-core-datetime-l1-1-0.dll	2024/2/22 4:36	应用程序扩展	22 KB		
	api-ms-win-core-debug-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-errorhandling-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-fibers-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-file-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	26 KB		
	api-ms-win-core-file-l1-2-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-file-l2-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-handle-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-heap-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-interlocked-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-libraryloader-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-localization-l1-2-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-memory-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		
	api-ms-win-core-namedpipe-l1-1-0.dll	2024/2/22 4:37	应用程序扩展	22 KB		

切换环境和验证版本

Conda env list

```
$ conda env list

# conda environments:
#
base                  * C:\Users\ABCD\anaconda3
pyth1                 C:\Users\ABCD\anaconda3\envs\pyth1
pyth2                 C:\Users\ABCD\anaconda3\envs\pyth2
```

激活:

```
$ conda activate pyth1
(pyth1)
```

现在的 python:

```
$ which python
/c/Users/ABCD/anaconda3/envs/pyth1/python
(pyth1)
```

查看版本:

```
ABCD@DESKTOP-SUC708H MINGW64 ~
$ which python
/c/Users/ABCD/anaconda3/envs/pyth2/python
(pyth2)
ABCD@DESKTOP-SUC708H MINGW64 ~
$ python --version
Python 3.9.21
(pyth2)
```

使用 python 和退出 python:

```
ABCD@DESKTOP-SUC708H 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.
>>> quit()
(pyth2)
```

5. 使用 conda list 命令显示 Conda 环境里的软件包列表及其版本信息

```
ABCD@DESKTOP-SUC708H MINGW64 ~
$ conda list
# packages in environment at C:\Users\ABCD\anaconda3\envs\pyth2:
#
# 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                         2022.1.0                             h59b6407_46220
```

6. 使用 conda install 命令往 Conda 环境里安装更多的软件包，并验证版本

Conda install:

```
(pyth1)
ABCD@DESKTOP-SUC708H MINGW64 ~
$ conda install ipython
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done
```

```

(pyth1)
ABCD@DESKTOP-SUC708H MINGW64 ~
$ conda config --set channel_priority strict
(pyth1)
ABCD@DESKTOP-SUC708H MINGW64 ~
$ conda install polars
Channels:
- conda-forge
- 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

```

删除 python

```

ABCD@DESKTOP-SUC708H MINGW64 ~
$ conda deactivate
(pyth2)
ABCD@DESKTOP-SUC708H MINGW64 ~
$ conda env remove -n pyth1

```

8、使用 `pip install` 命令往 Conda 环境里安装 Python 软件包，并验证版本

```

(base) ABCD@DESKTOP-SUC708H MINGW64 ~
$ pip install tushare
Looking in indexes: https://mirrors.tuna.tsinghua.edu.cn/p

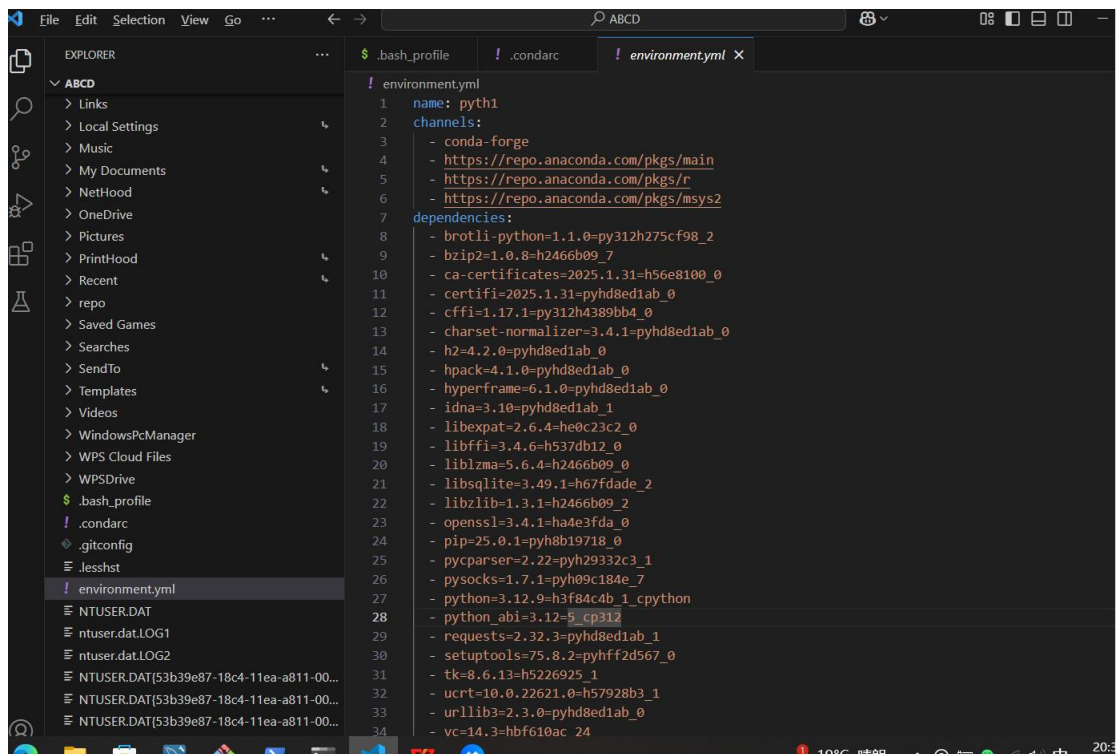
```

10. 能够导出 `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

```

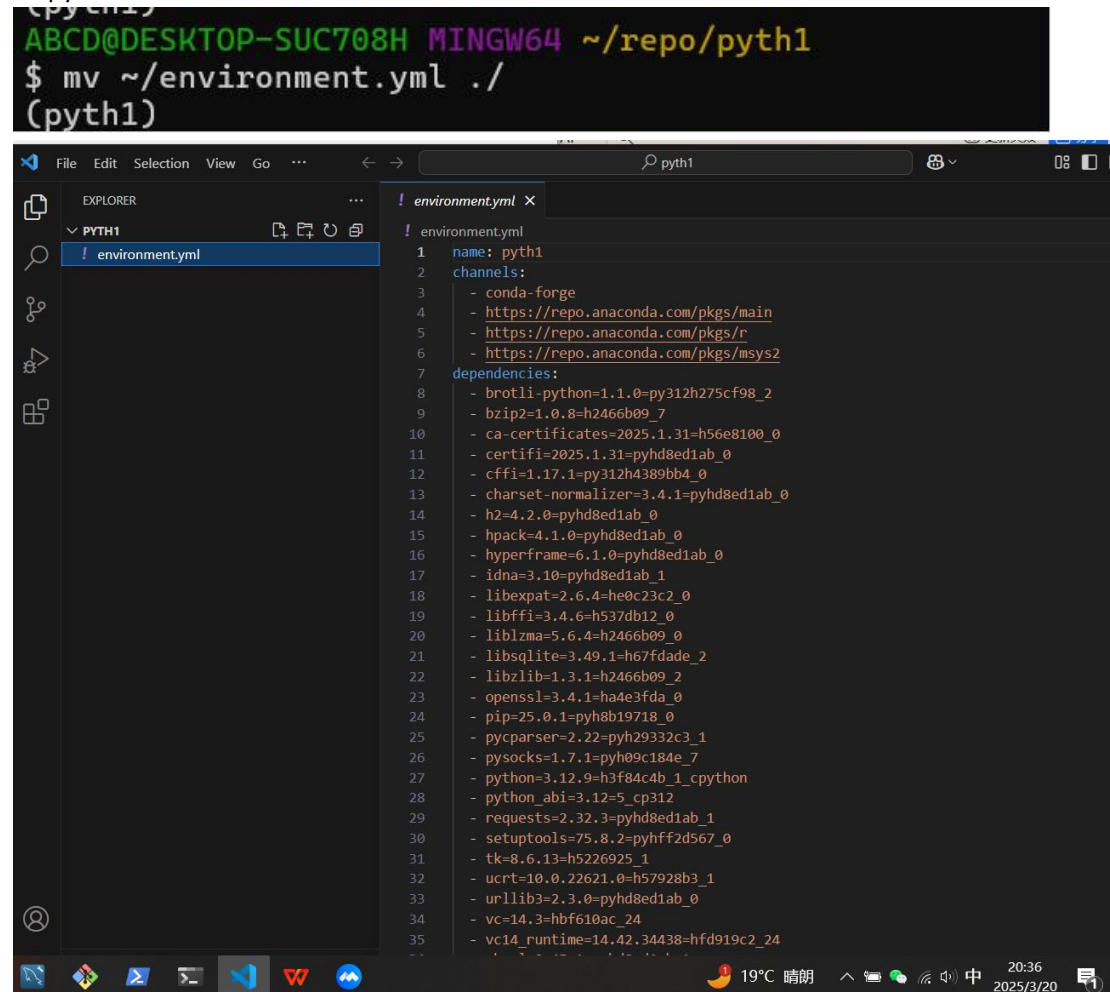
(pyth1)
ABCD@DESKTOP-SUC708H MINGW64 ~
$ conda env export
name: pyth1
channels:
- conda-forge
- https://repo.anaconda.com/pkgs/main
- https://repo.anaconda.com/pkgs/r

```



将 python 项目移动

```
(pyth1)
ABCD@DESKTOP-SUC708H MINGW64 ~/repo/pyth1
$ mv ~/environment.yml ./
(pyth1)
```



11、理解 Conda 与 Python 的关系

它作为一个数据科学，机器学习领域等这个领域的一个开发平台，是一个开发环境。那么环境的话，它不仅是管理 *python*。还管 *R* 语言 *C++*、*java* 等等这些东西，这样的，是要比 *python* 的范围要更大一些。且还具有隔离性兼容性。

12、

```
(base) ABCD@DESKTOP-SUC708H MINGW64 ~/repo/myproject
$ cat environment.yml
name: myproject
channels:
  - conda-forge
dependencies:
  - python=3.12
```

```
(base) ABCD@DESKTOP-SUC708H MINGW64 ~/repo
$ cat environment.yml
cat: environment.yml: No such file or directory

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

创造好环境

```
# conda environments:
#
base                * C:\Users\ABCD\anaconda3
myproject           C:\Users\ABCD\anaconda3\envs\myproject
pyth1               C:\Users\ABCD\anaconda3\envs\pyth1
pyth2               C:\Users\ABCD\anaconda3\envs\pyth2
```

输出 hello conda 以及 pandas 的路径

```
$ python main.py
Hello, conda!
2.2.3
C:\Users\ABCD\anaconda3\envs\myproject\Lib\site-packages\pandas\__init__.py
(myproject)
ABCD@DESKTOP-SUC708H MINGW64 ~/repo/myproject
$ █
```