第三周学习笔记

Part1-在终端配置 conda 初始化

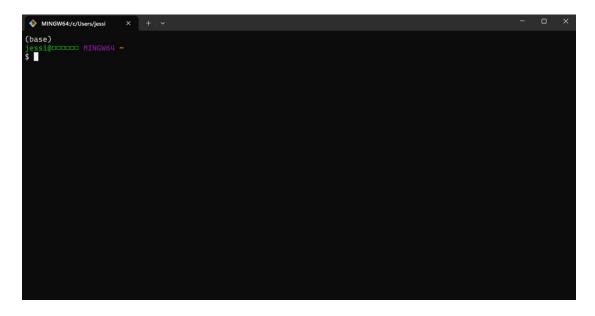
查看 conda 路径

```
MINGW64:/c/Users/jessi
                                                                                                         Display a health report for your environment.

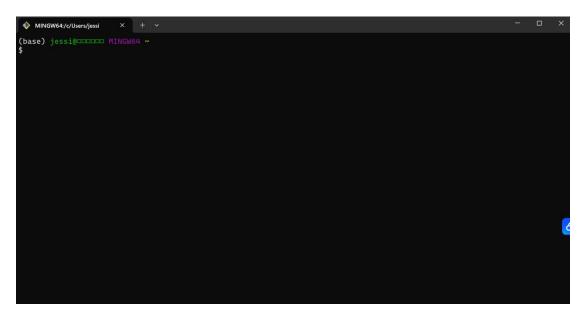
Export a given environment
Update package index metadata files.
Display information about current conda install.
Initialize conda for shell interaction.
Tools for inspecting conda packages.
Install a list of packages into a specified conda environment.
List installed packages in a conda environment.
Specialty tool for generating conda metapackage.
Retrieve latest channel notifications.
See 'conda pack --help'.
Create low-level conda packages. (EXPERIMENTAL)
Remove a list of packages from a specified conda environment.
Rename an existing environment.
Expand a conda recipe into a platform-specific recipe.
See 'conda repo --help'.
Advanced search for repodata.
Run an executable in a conda environment.
Search for packages and display associated information using the MatchSpec format.
See 'conda server --help'.
Generate boilerplate conda recipes.
See 'conda token --help'.
Update conda packages to the latest compatible version.
                  doctor
export
index
                  info
init
                 inspect
install
list
                metapackage
notices
                  package
remove (uninstall)
                  rename
                  render
                  repo
                  repoquery
                  run
search
                  server
skeleton
                 update (upgrade)
        which conda
/c/Users/jessi/anaconda3/Scripts/conda
```

输入 code.可以打开 vs code, 文件路径用中文存在不兼容问题。

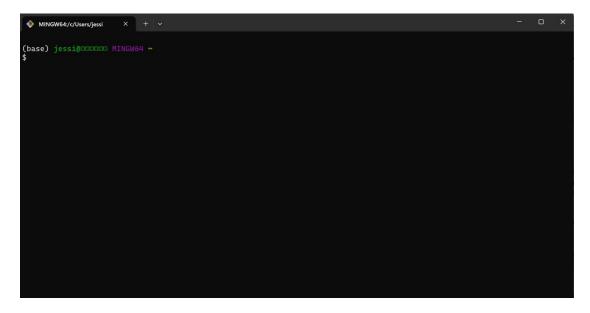
Vs code 是文本编辑器,只能用来查看文本,不能查看其他类型文件。



删除 13 行内容, base 无换行



ps1 为上图显示的字符,可自定义 加入换行



Part2-创建 conda 环境

查看 conda 配置信息

```
(base) jessi@ccccc MINGW64 ~

$ conda info

active environment: base
active env location: C:\Users\jessi\anaconda3
shell level: 1
user config file: C:\Users\jessi\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=skylake
__conda24.9.2=0
__win=0=0
base environment: C:\Users\jessi\anaconda3\text{\conda}
conda av metadata url: None
channel URLs: https://repo.anaconda.com/pkgs/main/win-64
https://repo.anaconda.com/pkgs/main/march
https://repo.anaconda.com/pkgs/r/noarch
https://repo.anaconda.com/pkgs/msys2/noarch
package cache: C:\Users\jessi\anaconda\com/pkgs/msys2/noarch
package cache: C:\Users\jessi\anaconda\com/pkgs
c:\Users\jessi\anaconda\com/pkgs
c:\Users\jessi\anaconda\com/pkgs
c:\Users\jessi\anaconda\com/pkgs
c:\Users\jessi\anaconda\com/pkgs
c:\Users\jessi\anaconda\com/pkgs
c:\Users\jessi\anaconda\com/pkgs
```

查看环境名称和路径

创建 conda 环境的原因:版本隔离+项目独立

创建 conda 环境

```
(base) jessi@□□□□□ MINGW64 ~
$ conda create -n prj1 python=3.12 requests
Channels:
 - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done
## Package Plan ##
  environment location: C:\Users\jessi\anaconda3\envs\prj1
  added / updated specs:
    - python=3.12
    - requests
The following packages will be downloaded:
                                             build
    package
    brotli-python-1.0.9
                                   py312h5da7b33_9
                                                            347 KB
    bzip2-1.0.8
                                        h2bbff1b_6
                                                             90 KB
    ca-certificates-2025.2.25
                                        haa95532_0
                                                            130 KB
    certifi-2025.1.31
                                   py312haa95532_0
                                                            164 KB
                                      pyhd3eb1b0_0
    charset-normalizer-3.3.2
                                                            44 KB
    expat-2.6.4
                                        h8ddb27b_0
                                                            257 KB
    idna-3.7
                                   py312haa95532_0
                                                            133 KB
                                                            122 KB
    libffi-3.4.4
                                        hd77b12b_1
(base) jessi@uuuuu MINGW64 ~
$ conda create -n prj2 python=3.9 requests pandas statsmodels
Channels:
 - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done
## Package Plan ##
 environment location: C:\Users\jessi\anaconda3\envs\prj2
 added / updated specs:
   - pandas
    - python=3.9
    - requests
    - statsmodels
The following packages will be downloaded:
                                           build
    package
```

mkl

py39hc99e966_0

py39h5da7b33_9

6 KB

129 KB

345 KB

blas-1.0

bottleneck-1.4.2

brotli-python-1.0.9

```
(base) jessi@cocco MINGW64 ~

$ conda activate prj1
(prj1)
jessi@cocco MINGW64 ~

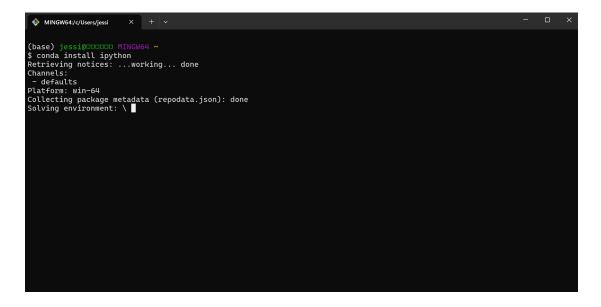
$ python
Python 3.12.9 | packaged by Anaconda, Inc. | (main, Feb 6 2025, 18:49:16) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import requests
>>> requests
<module 'requests' from 'C:\\Users\\jessi\\anaconda3\\envs\\prj1\\Lib\\site-packages\\requests\\__init__.py'>
```

```
jessi@uuuuu MINGW64 ~
$ conda activate prj2
(prj2)
jessi@uuuuu MINGW64 ~
$
```

查看 conda 列表和环境

```
(prj2)
jessi@□□□□□□ MINGW64 ~
$ conda list
# packages i
  packages in environment at C:\Users\jessi\anaconda3\envs\prj2:
# Name
                           Version
                                                       Build
                                                              Channel
blas
                            1.0
                                                         mkl
bottleneck
                            1.4.2
                                              py39hc99e966_0
                            1.0.9
brotli-python
                                              py39h5da7b33_9
ca-certificates
                                                  haa95532_0
                            2025.2.25
certifi
                            2025.1.31
                                              py39haa95532_0
                                                pyhd3eb1b0_0
charset-normalizer
                            3.3.2
icc_rt
                            2022.1.0
                                                  h6049295_2
idna
                                              py39haa95532_0
                            3.7
                            2023.1.0
                                              h59b6b97_46320
intel-openmp
                                             h6b88ed4_46358
mkl
                            2023.1.0
mkl-service
                            2.4.0
                                              py39h827c3e9_2
mkl_fft
                            1.3.11
                                              py39h827c3e9_0
mkl_random
                           1.2.8
                                              py39hc64d2fc_0
                                              py39h4cd664f_0
numexpr
                            2.10.1
                                              py39h055cbcc_0
                            2.0.2
numpy
                            2.0.2
numpy-base
                                              py39h65a83cf_0
                                                  h3f729d1_0
openssl
                            3.0.16
packaging
                                              py39haa95532_0
                            24.2
pandas
                                              py39h5da7b33_0
                            2.2.3
patsy
                            1.0.1
                                              py39haa95532_0
                                              py39haa95532_0
                            25.0
pip
pybind11-abi
                            5
                                                  hd3eb1b0_0
```

安装 ipython 软件包



镜像: 国内开源, 加快软件包安装速度

新建 conda 环境

安装 polars

安装 tushare

重建 conda 环境

```
(base)
jessi@□□□□□ MINGW64 ~

$ conda env create
Channels:
  - conda-forge
  - https://repo.anaconda.com/pkgs/main
  - https://repo.anaconda.com/pkgs/r
  - https://repo.anaconda.com/pkgs/r
  - https://repo.anaconda.com/pkgs/msys2
Platform: win-64
Collecting package metadata (repodata.json): \
```

Conda 和 python 的关系: conda 不仅可以管理 python, 还可以管理其他依赖项 (r语言、C++等)

Conda-forge 与 conda 的关系:协作, conda-forge 为软件包仓库,丰富软件包资源,优势互补

创建文件夹代码: mkdir, 注意文件名称要求

安装常用扩展

