

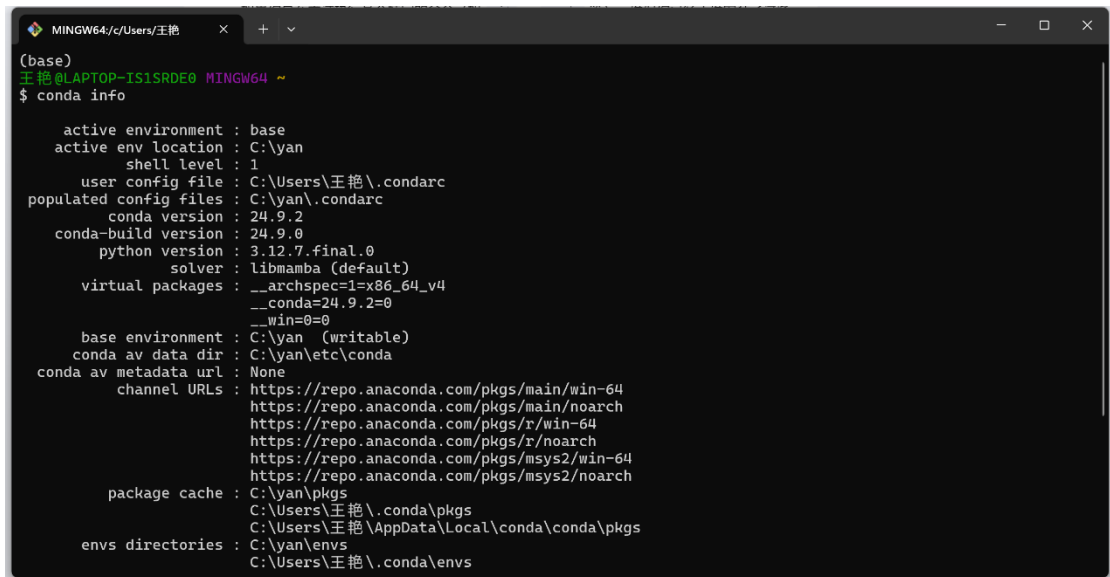
## 第三周学习报告

1.



```
MINGW64:/c/Users/王艳
(base)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$
```

2. 查看本机 Conda 的配置信息:



```
MINGW64:/c/Users/王艳
(base)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda info

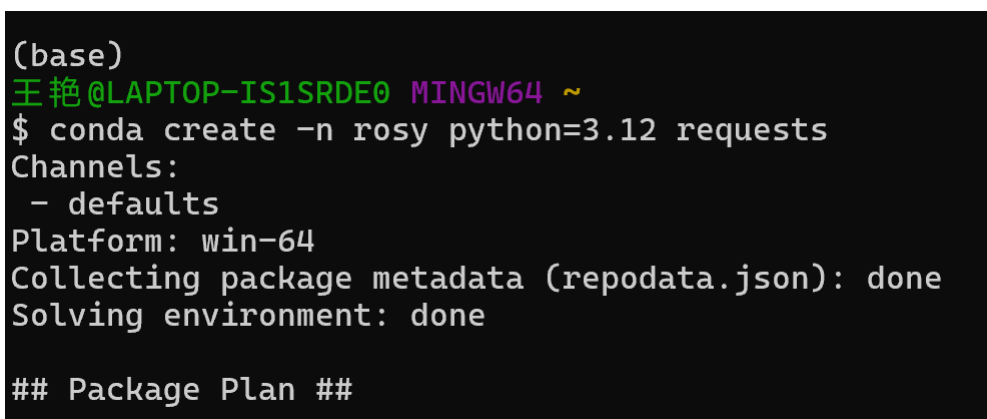
active environment : base
active env location : C:\yan
shell level : 1
user config file : C:\Users\王艳\.condarc
populated config files : C:\yan\.condarc
conda version : 24.9.2
conda-build version : 24.9.0
python version : 3.12.7.final.0
solver : libmamba (default)
virtual packages : __archspec=1=x86_64_v4
                  __conda=24.9.2=0
                  __win=0=0
base environment : C:\yan (writable)
conda av data dir : C:\yan\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:\yan\pkgs
                 C:\Users\王艳\.conda\pkgs
                 C:\Users\王艳\AppData\Local\conda\conda\pkgs
envs directories : C:\yan\envs
                  C:\Users\王艳\.conda\envs
```

3. 查看已有的环境和路径:



```
(base)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda env list
# conda environments:
#
base * C:\yan
      D:\wangyan
```

4. 使用 conda create 命令创建两个 Conda 环境



```
(base)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda create -n rosy python=3.12 requests
Channels:
 - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##
```

```

...on / pack / repo / token / server / remove / uninstall / ...
(base)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda create -n rosy python=3.9 pandas statsmodels
WARNING: A conda environment already exists at 'C:\yan\envs\rosy'

Remove existing environment?
This will remove ALL directories contained within this specified prefix.

```

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

```

(base)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda env list
# conda environments:
#
base                * C:\yan
rosy                 C:\yan\envs\rosy
                    D:\wangyan

(base)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda activate rosy
(rosy)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ which python
/c/yan/envs/rosy/python
(rosy)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ python --version
Python 3.9.21
(rosy)
王艳@LAPTOP-IS1SRDE0 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.
>>>

```

- 查看版本：

```

(rosy)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ python --version
Python 3.9.21

```

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

```

(rosy)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda list
# packages in environment at C:\yan\envs\rosy:
#
# Name                                Version                                Build                                Channel
blas                                  1.0                                    mkl
bottleneck                           1.4.2                                py39hc99e966_0
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
icc_rt                               2022.1.0                              h6049295_2
idna                                  3.7                                    py39haa95532_0
intel-openmp                         2023.1.0                              h59b6b97_46320

```

- 下载软件：conda install

```
(rosy)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda install ipython
Channels:
```

- 配置 Anaconda 清华镜像，加快 conda install 安装软件包的速度，将 conda-forge 设置为默认 Channel，让 conda install 能够安装更多的软件包

```
王艳 > ! .condarc
1 channels:
2   - conda-forge
3   - defaults
4 show_channel_urls: true
5 default_channels:
6   - https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main
7   - https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/r
8   - https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/msys2
9 custom_channels:
10  conda-forge: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
11  pytorch: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
12 channel_priority: strict
```

- pip install 命令往 Conda 环境里安装 Python 软件包

```
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ pip install tushare
WARNING: Retrying (Retry(total=4, connect=None, read=None, redirect=None, status=None)) after connection broken by 'ConnectTimeoutError(<pip._vendor.urllib3.connection.HTTPSConnection object at 0x000001B96043CC40>, 'Connection to pypi.org timed out. (connect timeout=15)')': /simple/tushare/
Collecting tushare
  Downloading tushare-1.4.19-py3-none-any.whl.metadata (3.1 kB)
Requirement already satisfied: pandas in c:\yan\envs\rosy\lib\site-packages (from tushare) (2.2.3)
Requirement already satisfied: requests in c:\yan\envs\rosy\lib\site-packages (from tushare) (2.32.3)
Collecting lxml (from tushare)
  Downloading lxml-5.3.1-cp39-win_amd64.whl.metadata (3.8 kB)
Collecting simplejson (from tushare)
  Downloading simplejson-3.20.1-cp39-win_amd64.whl.metadata (3.4 kB)
Collecting bs4 (from tushare)
```

- 配置 PyPI 清华镜像，加快 pip install 安装软件包的速度

```
(rosy)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Writing to C:\Users\王艳\AppData\Roaming\pip\pip.ini
```

- 导出 environment.yml Conda 环境配置文件

```
(rosy)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda env export
name: rosy
channels:
  - conda-forge
  - defaults
```

- 删除 Conda 环境

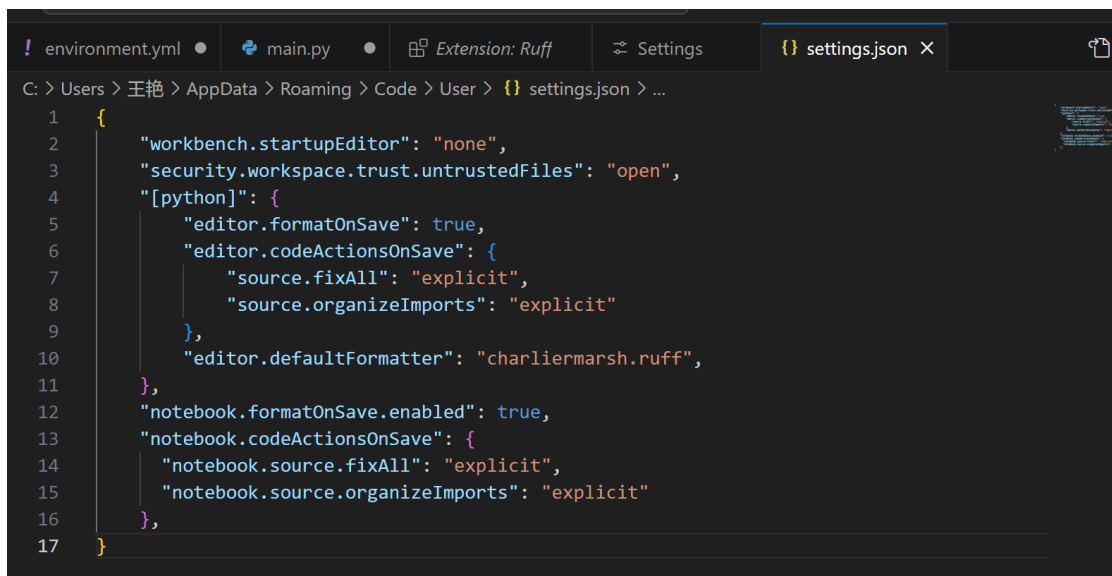
```
(base)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~
$ conda env remove -n rosy

Remove all packages in environment C:\yan\envs\rosy:
```

14. 用 environment.yml 配置文件重建 Conda 环境

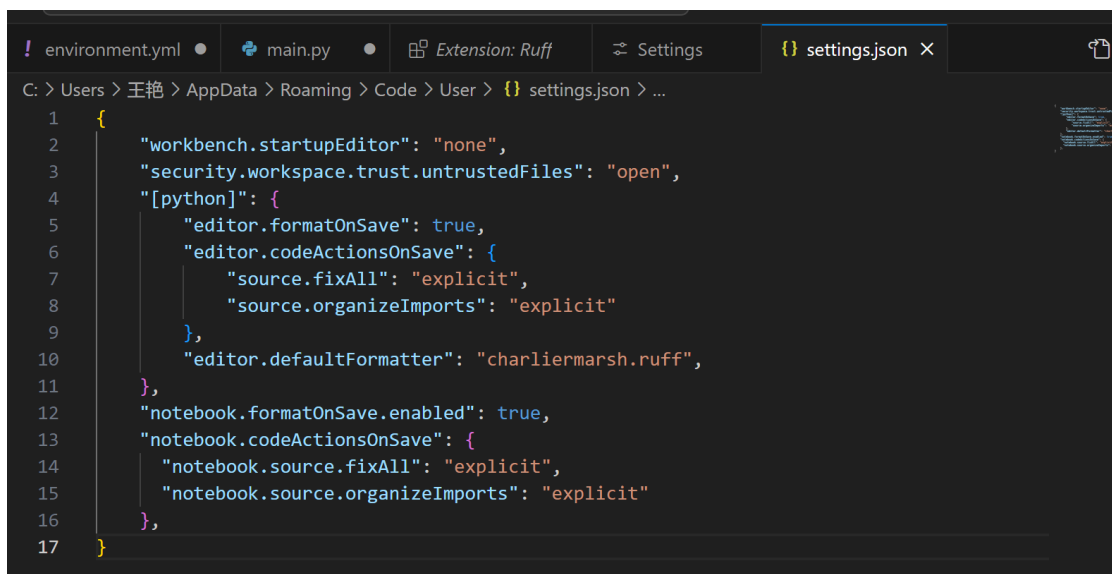
```
(base)
王艳@LAPTOP-IS1SRDE0 MINGW64 ~/repo/prj1
$ conda env create
C:\yan\Lib\argparse.py:2006: FutureWarning: `remote_definition`
v create --file=URL` instead.
```

15. 设置 ruff



```
environment.yml • main.py • Extension: Ruff • Settings • settings.json X
C: > Users > 王艳 > AppData > Roaming > Code > User > {} settings.json > ...
1 {
2   "workbench.startupEditor": "none",
3   "security.workspace.trust.untrustedFiles": "open",
4   "[python]": {
5     "editor.formatOnSave": true,
6     "editor.codeActionsOnSave": {
7       "source.fixAll": "explicit",
8       "source.organizeImports": "explicit"
9     },
10    "editor.defaultFormatter": "charliermarsh.ruff",
11  },
12  "notebook.formatOnSave.enabled": true,
13  "notebook.codeActionsOnSave": {
14    "notebook.source.fixAll": "explicit",
15    "notebook.source.organizeImports": "explicit"
16  },
17 }
```

16. 在 VS Code 文本编辑器里安装一些支持 Python 开发的常用扩展，编写 main.py 脚本，创建该项目专用的 Conda 环境，在终端里激活该环境并成功运行该脚本



```
environment.yml • main.py • Extension: Ruff • Settings • settings.json X
C: > Users > 王艳 > AppData > Roaming > Code > User > {} settings.json > ...
1 {
2   "workbench.startupEditor": "none",
3   "security.workspace.trust.untrustedFiles": "open",
4   "[python]": {
5     "editor.formatOnSave": true,
6     "editor.codeActionsOnSave": {
7       "source.fixAll": "explicit",
8       "source.organizeImports": "explicit"
9     },
10    "editor.defaultFormatter": "charliermarsh.ruff",
11  },
12  "notebook.formatOnSave.enabled": true,
13  "notebook.codeActionsOnSave": {
14    "notebook.source.fixAll": "explicit",
15    "notebook.source.organizeImports": "explicit"
16  },
17 }
```