code .   启动 vscode 在当前文件夹

配置 conda init

conda init bash

```
 MINGW64:/c/Users/zhangyur    ×      +   ∨

$ which conda
/d/python/Scripts/conda

zhangyunfei@LAPTOP-NU6BCCKG MINGW64 ~
$ conda init bash
no change       D:\python\Scripts\conda.exe
no change       D:\python\Scripts\conda-env.exe
no change       D:\python\Scripts\conda-script.py
no change       D:\python\Scripts\conda-env-script.py
no change       D:\python\condabin\conda.bat
no change       D:\python\Library\bin\conda.bat
no change       D:\python\condabin\_conda_activate.bat
no change       D:\python\condabin\rename_tmp.bat
no change       D:\python\condabin\conda_auto_activate.bat
no change       D:\python\condabin\conda_hook.bat
no change       D:\python\Scripts\activate.bat
no change       D:\python\condabin\activate.bat
no change       D:\python\condabin\deactivate.bat
modified        D:\python\Scripts\activate
modified        D:\python\Scripts\deactivate
modified        D:\python\etc\profile.d\conda.sh
modified        D:\python\etc\fish\conf.d\conda.fish
no change       D:\python\shell\condabin\Conda.psm1
modified        D:\python\shell\condabin\conda-hook.ps1
no change       D:\python\Lib\site-packages\xontrib\conda.xsh
modified        D:\python\etc\profile.d\conda.csh
modified        C:\Users\zhangyunfei\.bash_profile

==> For changes to take effect, close and re-open your current shell. <==
```

配置成功

```
 MINGW64:/c/Users/zhangyur    ×      +   ∨

(base)
zhangyunfei@LAPTOP-NU6BCCKG MINGW64 ~
$ |
```

Ctrl+L 可以清空界面

查看计算机的 conda 的配置信息

```
$ conda info

     active environment : base
    active env location : D:\python
            shell level : 1
       user config file : C:\Users\zhangyunfei\.condarc
 populated config files : D:\python\.condarc
                          C:\Users\zhangyunfei\.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
                          __conda=24.9.2=0
                          __cuda=10.2=0
                          __win=0=0
       base environment : D:\python  (writable)
      conda av data dir : D:\python\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 : D:\python\pkgs
                          C:\Users\zhangyunfei\.conda\pkgs
                          C:\Users\zhangyunfei\AppData\Local\conda\conda\pkgs
```

创建 conda 环境，安装 python3.2 和 requests 软件包

```
$ 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: D:\python\envs\prj1

  added / updated specs:
    - python=3.12
    - requests


The following packages will be downloaded:

    package                    |            build
    ---------------------------|-----------------
    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
    charset-normalizer-3.3.2   |     pyhd3eb1b0_0         44 KB
    expat-2.6.4                |       h8ddb27b_0        257 KB
    idna-3.7                   |  py312haa95532_0        133 KB
    libffi-3.4.4               |       hd77b12b_1        122 KB
```

创建 conda 环境，安装 python3.9 以及一系列软件包

```
$ 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:\python\envs\prj2

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


The following packages will be downloaded:

    package                    |            build
    ---------------------------|----------------
    blas-1.0                   |             mkl           6 KB
    bottleneck-1.4.2           |  py39hc99e966_0         129 KB
    icc_rt-2022.1.0            |     h6049295_2         6.5 MB
    intel-openmp-2023.1.0      |    h59b6b97_46320       2.7 MB
```

使用 conda env list 命令查看目前所创建的 conda 环境

```
$ conda env list
# conda environments:
#
base                  *  D:\python
prj1                     D:\python\envs\prj1
prj2                     D:\python\envs\prj2
```

conda activate prj1 激活 prj1 环境

```
$ conda activate prj1
(prj1)
zhangyunfei@LAPTOP-NU6BCCKG MINGW64 ~
```

输入 python 进入 python 环境

quit（）退出 python 环境

import requests 导入 requests 软件包

Pandas.__version__

conda install 在当前工作环境中下载安装包

conda list 验证安装包版本

配置清华镜像


```
zhangyunfei@LAPTOP-NU6BCCKG MINGW64 ~
$ conda config --set show_channel_urls yes
(prj1)
zhangyunfei@LAPTOP-NU6BCCKG MINGW64 ~
$
```



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

修改后


```
! .condarc
1   channels:
2     - defaults
3     - https://repo.anaconda.com/pkgs/main
4     - https://repo.anaconda.com/pkgs/r
5     - https://repo.anaconda.com/pkgs/msys2
6   show_channel_urls: true
7
```

Channels 下的内容修改成 conda-forge

安装 polars

在 python 中成功导入 polars

conda deactivate   回到 base 环境

conda env remove -n prj1   删除 prj1 环境

使用 pip 命令下载 tushare 软件包

```
zhangyunfei@LAPTOP-NU6BCCKG MINGW64 ~
$ pip install tushare
Collecting tushare
  Downloading tushare-1.4.19-py3-none-any.whl.metadata (3.1 kB)
Collecting pandas (from tushare)
  Downloading pandas-2.2.3-cp312-cp312-win_amd64.whl.metadata (19 kB)
Requirement already satisfied: requests in d:\python\envs\prj1\lib\site-packages (from tushare
Collecting lxml (from tushare)
  Downloading lxml-5.3.1-cp312-cp312-win_amd64.whl.metadata (3.8 kB)
Collecting simplejson (from tushare)
  Downloading simplejson-3.20.1-cp312-cp312-win_amd64.whl.metadata (3.4 kB)
Collecting bs4 (from tushare)
  Downloading bs4-0.0.2-py2.py3-none-any.whl.metadata (411 bytes)
Collecting websocket-client>=0.57.0 (from tushare)
  Downloading websocket_client-1.8.0-py3-none-any.whl.metadata (8.0 kB)
Collecting tqdm (from tushare)
  Downloading tqdm-4.67.1-py3-none-any.whl.metadata (57 kB)
Collecting beautifulsoup4 (from bs4->tushare)
  Downloading beautifulsoup4-4.13.3-py3-none-any.whl.metadata (3.8 kB)
Requirement already satisfied: numpy>=1.26.0 in d:\python\envs\prj1\lib\site-packages (from pa
Collecting python-dateutil>=2.8.2 (from pandas->tushare)
  Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting pytz>=2020.1 (from pandas->tushare)
  Downloading pytz-2025.1-py2.py3-none-any.whl.metadata (22 kB)
```

```
$ python -m pip install --upgrade pip
Requirement already satisfied: pip in d:\python\envs\prj1\lib\site-packages (25.0)
Collecting pip
  Downloading pip-25.0.1-py3-none-any.whl.metadata (3.7 kB)
Downloading pip-25.0.1-py3-none-any.whl (1.8 MB)
   ──────────────────────────────────────── 1.8/1.8 MB 953.7 kB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 25.0
    Uninstalling pip-25.0:
      Successfully uninstalled pip-25.0
Successfully installed pip-25.0.1
(prj1)
zhangyunfei@LAPTOP-NU6BCCKG MINGW64 ~
$ pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Writing to C:\Users\zhangyunfei\AppData\Roaming\pip\pip.ini
(prj1)
```
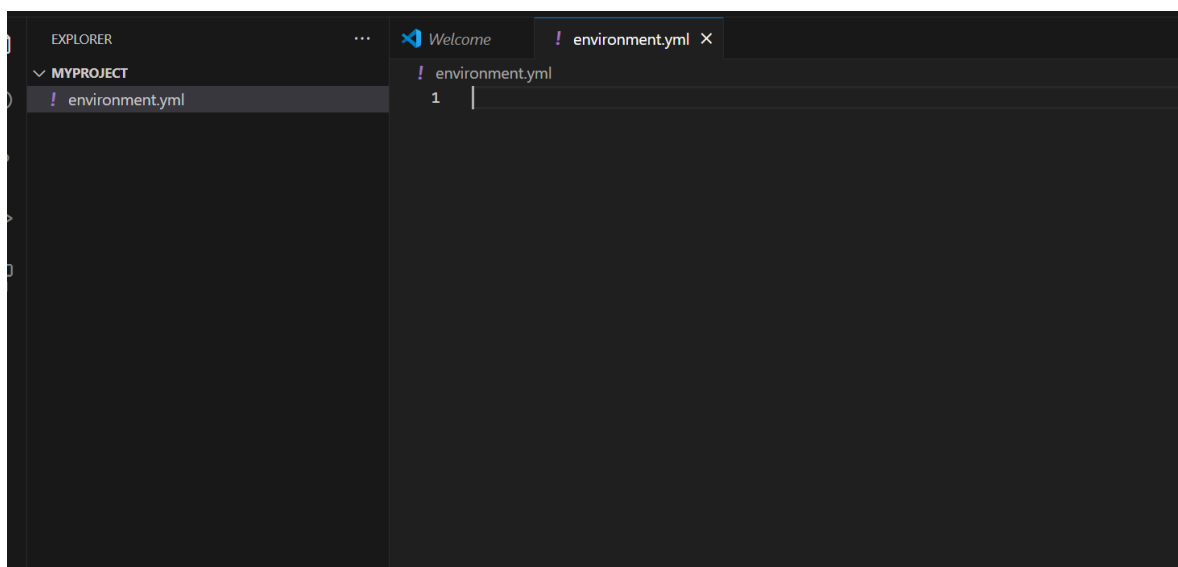
```
zhangyunfei@LAPTOP-NU6BCCKG MINGW64 ~
$ python
Python 3.12.9 | packaged by conda-forge | (main, Mar  4 2025, 22:37:18) [MSC v.1943 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import tushare
>>> tushare.__version__
'1.4.19'
>>>
```

创建文件夹时，名称中最好不要有大写字母，也不要有空格，也不要有其他特殊符号，"-"可以出现

创建环境文件，注意名称为"environment.yml"，此为默认文件

创建环境

安装扩展
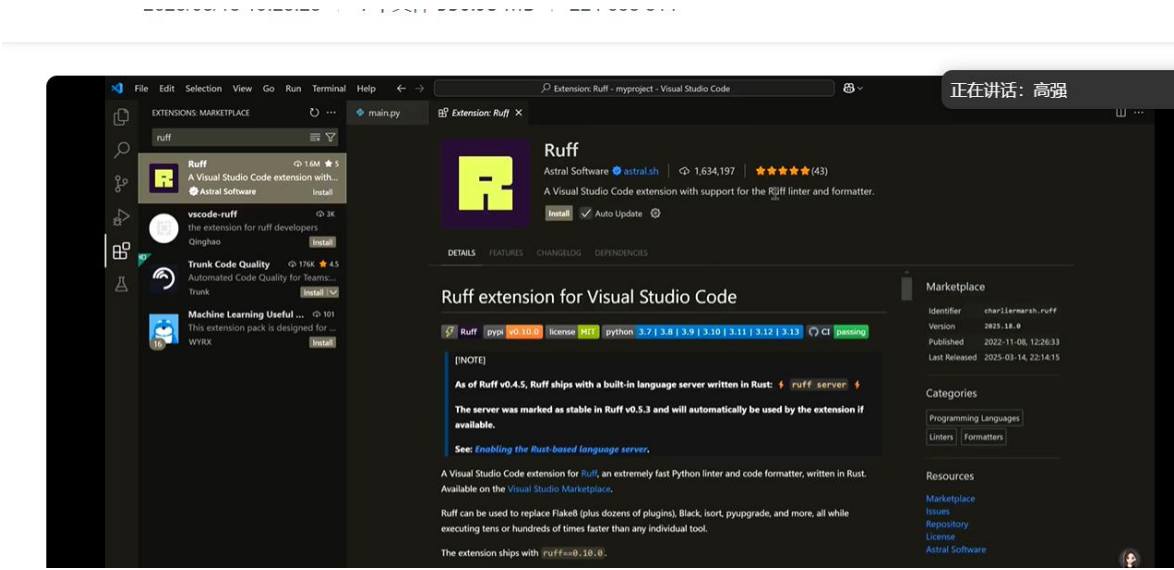
最后，得到运行结果，7.01%的美国居民居住在符合题意的街区