







# 任务 1

录制文件



第03周操作演示-part1-在终端配置Conda初始化

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main

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01-beginner

images

01 tutorial.md

02 tutorial.md

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16 tutorial.md

02-intermediate

contrib

images

base

CLANGARM64/c/Users/qiang

(base)

qiang@qiang3win CLANGARM64 ~

\$

正在讲话: 高强

任务目标

注意事项

操作演示

参考资料

11. 理解 Conda 与 Python 的关系, 理解 Conda-Forge 与 Conda 的关系, 理解 Python 解释器、第三方软件包、PyPI 软件仓库、以及程序/软件包的路径问题

12. 按照 教程 创建项目目录, 在终端配置好 Conda 环境, 在终端配置好 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, 在终端配置好 Python 开发的常用扩展, 编写 main.py 脚本

13. 按照 教程 创建项目目录, 在终端配置好 Conda 环境, 在终端配置好 Python 开发的常用扩展, 编写 main.py 脚本

15:32 / 33:51

2x

CC

主要讲述了如何使用Python程序解决问题。首先, 在终端配置好conda init, 使用默认配置, 然后安装date bash命令行。在苹果电脑上, 打开终端后可以看到提示符, 可以进行各种操作。接下来, 介绍了如何在VS Code中设置命令行, 使其在启动时自动运行一些命令。此外, 还提到了在Windows系统中

智能总结由机器自动生成, 仅供参考

```
MINGW64/c/Users/13212
Exception in thread Thread-5 (_readerthread):
Traceback (most recent call last):
  File "C:\Users\13212\anaconda3\Lib\threading.py", line 1075, in _bootstrap_inner
    self.run()
  File "C:\Users\13212\anaconda3\Lib\threading.py", line 1012, in run
    self._target(*self._args, **self._kwargs)
  File "C:\Users\13212\anaconda3\Lib\subprocess.py", line 1599, in _readerthread
    buffer.append(fh.read())
UnicodeDecodeError: 'gbk' codec can't decode byte 0x8b in position 374: illegal multibyte sequence
Unexpected cygpath error, fallback to manual path conversion
AttributeError: 'NoneType' object has no attribute 'strip'

(base) 13212@LAPTOP-76SH9KP3 MINGW64 ~
$
```

成功完成初始化

## 任务 2

```
MINGW64/c/Users/13212 x + v
done
#
# To activate this environment, use
#
# $ conda activate prj2
#
# To deactivate an active environment, use
#
# $ conda deactivate

(base) 13212@LAPTOP-76SH9KP3 MINGW64 ~
$ conda env list
# conda environments:
#
base          * C:\Users\13212\anaconda3
prj1          C:\Users\13212\anaconda3\envs\prj1
prj2          C:\Users\13212\anaconda3\envs\prj2

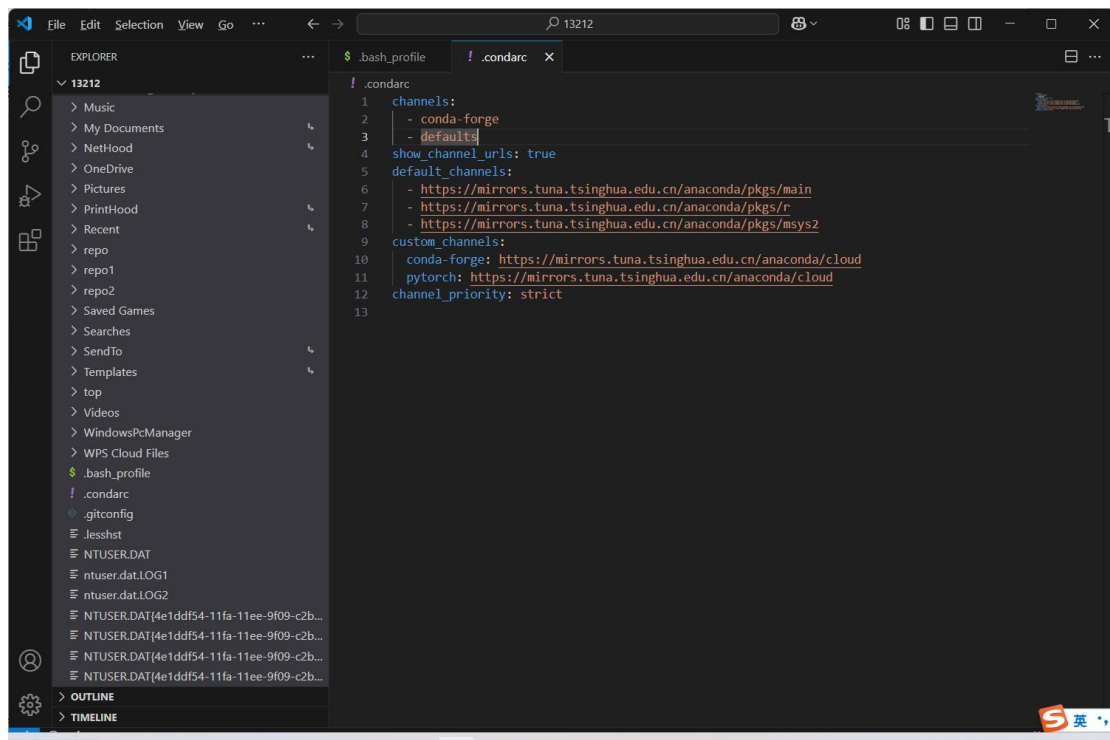
(base) 13212@LAPTOP-76SH9KP3 MINGW64 ~
$
```

## 安装 python3.12 与 python3.9 查看

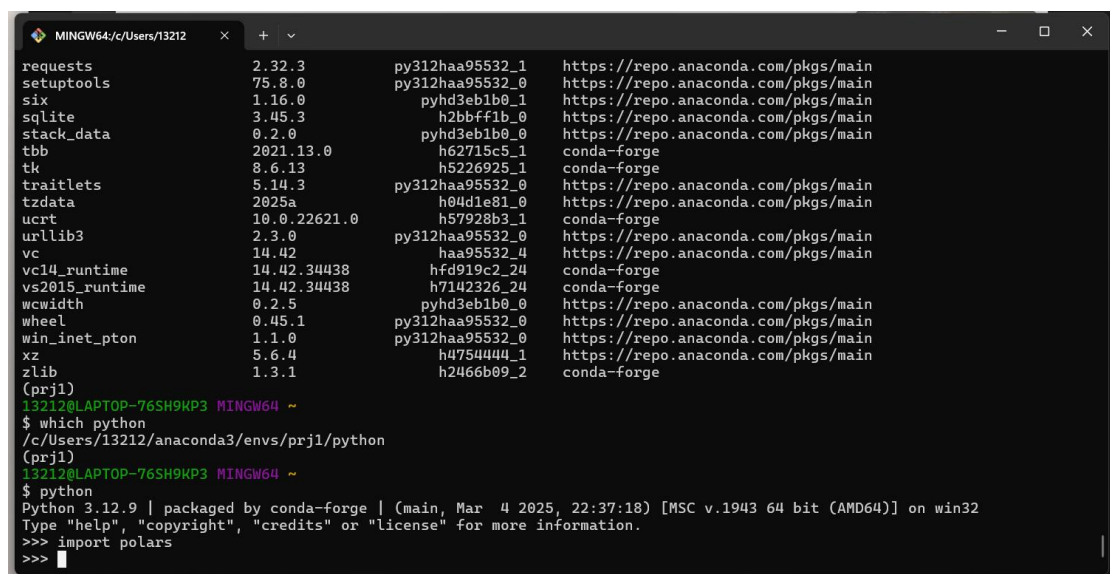
```
MINGW64/c/Users/13212 x + v
mkl                2023.1.0             h6b88ed4_46358
mkl-service        2.4.0               py39h827c3e9_2
mkl_fft            1.3.11             py39h827c3e9_0
mkl_random         1.2.8              py39hc64d2fc_0
numexpr           2.10.1             py39h4cd664f_0
numpy              2.0.2              py39h055cbcc_0
numpy-base        2.0.2              py39h65a83cf_0
openssl            3.0.16             h3f729d1_0
packaging          24.2               py39haa95532_0
pandas             2.2.3              py39h5da7b33_0
patsy              1.0.1              py39haa95532_0
pip                25.0               py39haa95532_0
pybind11-abi       5                  hd3eb1b0_0
python              3.9.21             h8205438_1
python-dateutil    2.9.0post0         py39haa95532_2
python-tzdata      2023.3             pyhd3eb1b0_0
pytz               2024.1             py39haa95532_0
scipy              1.13.1             py39h8640f81_1
setuptools         72.1.0             py39haa95532_0
six                1.16.0             pyhd3eb1b0_1
sqlite             3.45.3             h2bbff1b_0
statsmodels        0.14.4             py39h827c3e9_0
tbb                2021.8.0           h59b6b97_0
tzdata             2025a              h04d1e81_0
vc                 14.42              haa95532_4
vs2015_runtime     14.42.34433        he0abc0d_4
wheel              0.45.1             py39haa95532_0
(prj2)
13212@LAPTOP-76SH9KP3 MINGW64 ~
$
```

## 查看 conda 的软件包

### 任务 3

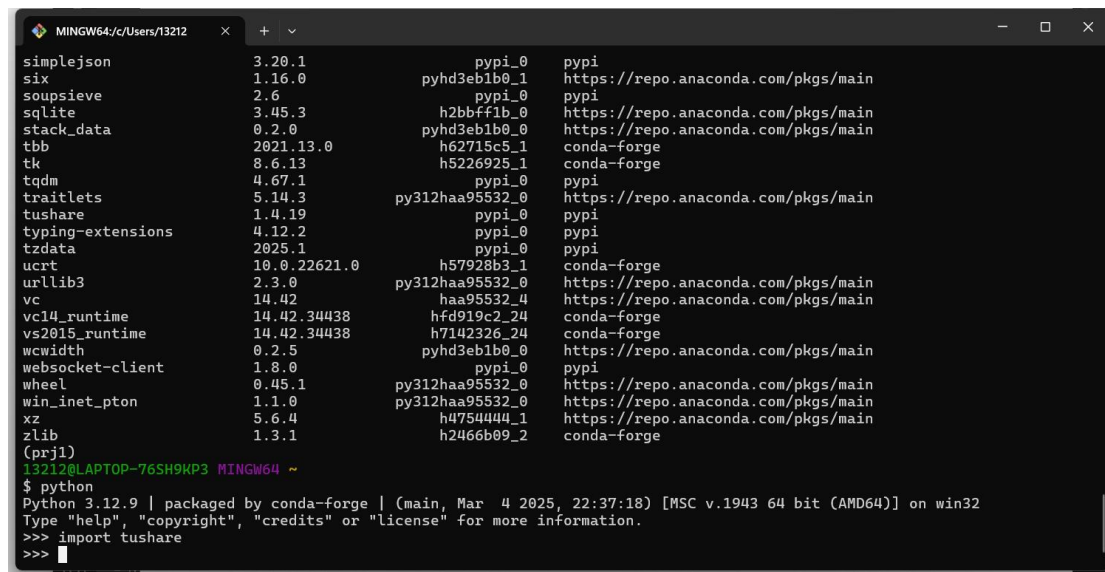


### 配置清华园镜像



### 安装 polars 软件包

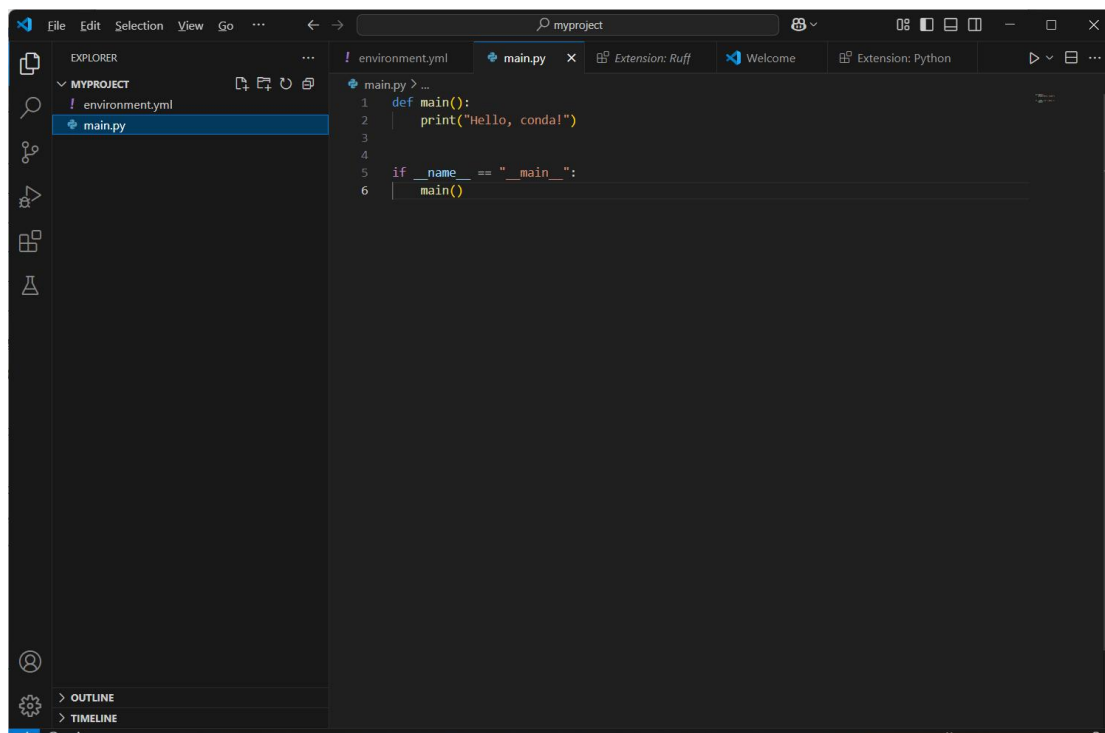
## 任务 4



```
MINGW64/c/Users/13212
simplejson 3.20.1 pypi_0 pypi
six 1.16.0 pyhd3eb1b0_1 https://repo.anaconda.com/pkgs/main
soupsieve 2.6 pypi_0 pypi
sqlite 3.45.3 h2bbff1b_0 https://repo.anaconda.com/pkgs/main
stack_data 0.2.0 pyhd3eb1b0_0 https://repo.anaconda.com/pkgs/main
tbb 2021.13.0 h62715c5_1 conda-forge
tk 8.6.13 h5226925_1 conda-forge
tqdm 4.67.1 pypi_0 pypi
traitlets 5.14.3 py312haa95532_0 https://repo.anaconda.com/pkgs/main
tushare 1.4.19 pypi_0 pypi
typing-extensions 4.12.2 pypi_0 pypi
tzdata 2025.1 pypi_0 pypi
ucrt 10.0.22621.0 h57928b3_1 conda-forge
urllib3 2.3.0 py312haa95532_0 https://repo.anaconda.com/pkgs/main
vc 14.42 haa95532_4 https://repo.anaconda.com/pkgs/main
vc14_runtime 14.42.34438 hfd919c2_24 conda-forge
vs2015_runtime 14.42.34438 h7142326_24 conda-forge
wcwidth 0.2.5 pyhd3eb1b0_0 https://repo.anaconda.com/pkgs/main
websocket-client 1.8.0 pypi_0 pypi
wheel 0.45.1 py312haa95532_0 https://repo.anaconda.com/pkgs/main
win_inet_pton 1.1.0 py312haa95532_0 https://repo.anaconda.com/pkgs/main
xz 5.6.4 h4754444_1 https://repo.anaconda.com/pkgs/main
zlib 1.3.1 h2466b09_2 conda-forge
(prj1)
13212@LAPTOP-76SH9KP3 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
>>>
```

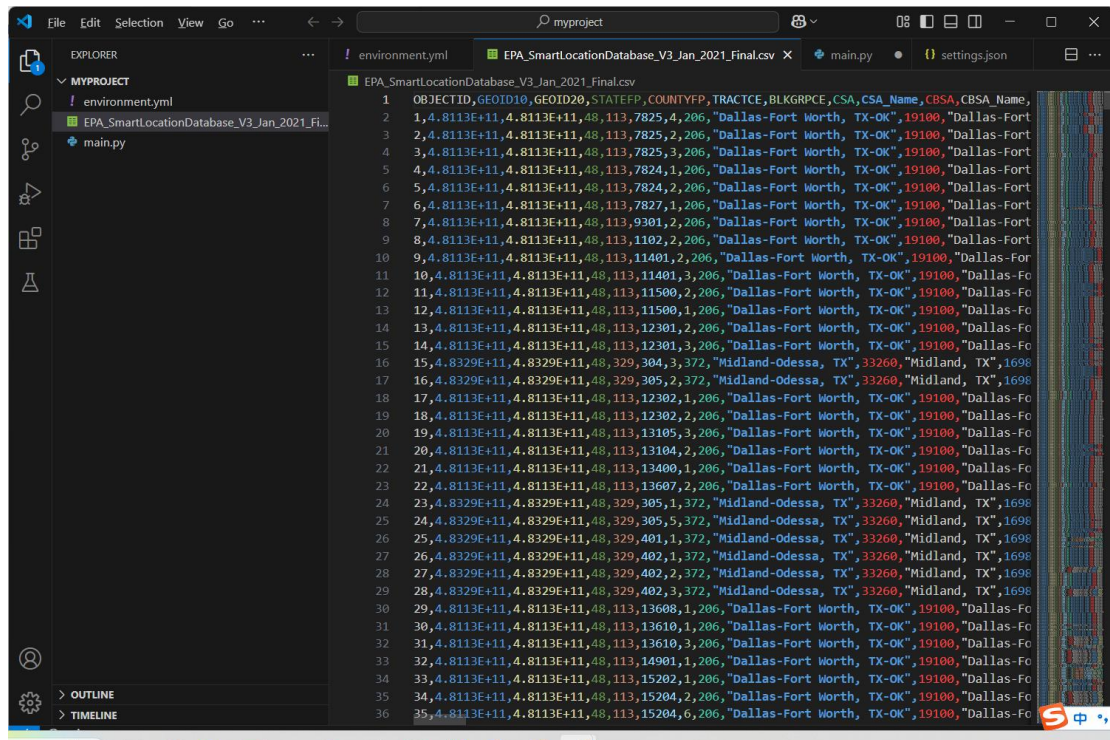
利用清华镜像源安装 tushare

## 任务 5



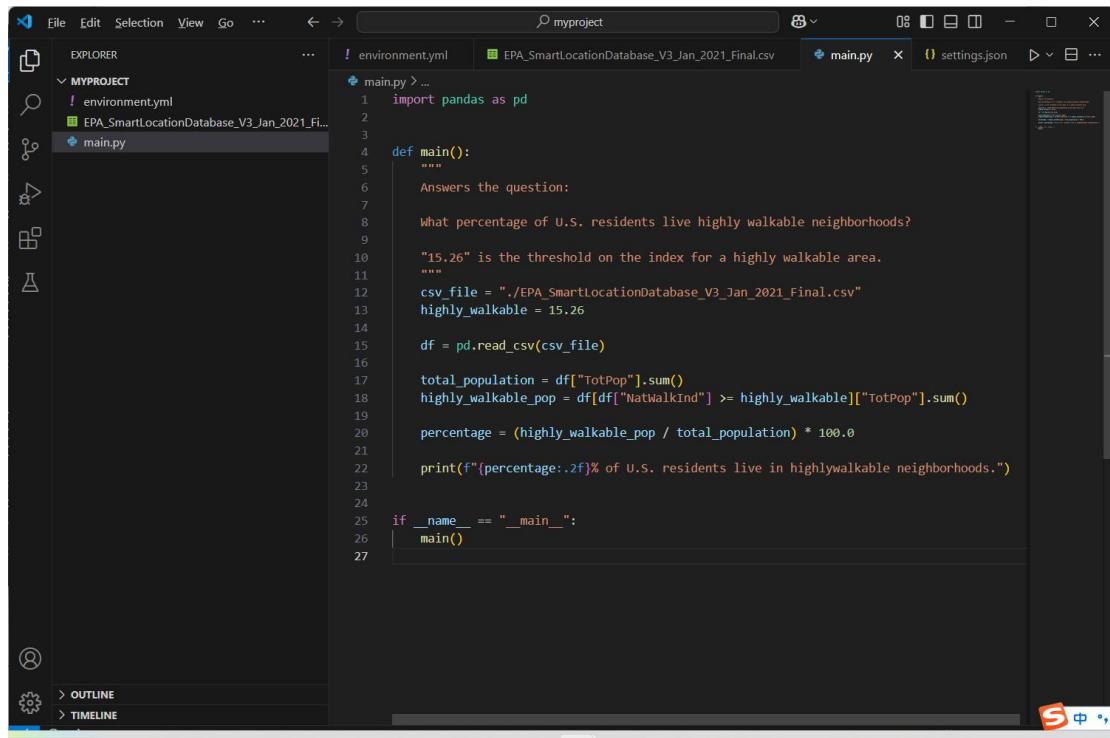
```
File Edit Selection View Go myproject
! environment.yml main.py Extension: Ruff Welcome Extension: Python
main.py > ...
1 def main():
2     print("Hello, conda!")
3
4
5 if __name__ == "__main__":
6     main()
```

编写 python 程序



```
1 OBJECTID,GEOID10,STATEFP,COUNTYFP,TRACTCE,BLKGRPC,CSA,CSA_Name,CBSA,CBSA_Name
2 1,4.8113E+11,4.8113E+11,48,113,7825,4,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fort
3 2,4.8113E+11,4.8113E+11,48,113,7825,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fort
4 3,4.8113E+11,4.8113E+11,48,113,7825,3,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fort
5 4,4.8113E+11,4.8113E+11,48,113,7824,1,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fort
6 5,4.8113E+11,4.8113E+11,48,113,7824,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fort
7 6,4.8113E+11,4.8113E+11,48,113,7827,1,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fort
8 7,4.8113E+11,4.8113E+11,48,113,9301,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fort
9 8,4.8113E+11,4.8113E+11,48,113,1102,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fort
10 9,4.8113E+11,4.8113E+11,48,113,11401,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fort
11 10,4.8113E+11,4.8113E+11,48,113,11401,3,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
12 11,4.8113E+11,4.8113E+11,48,113,11500,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
13 12,4.8113E+11,4.8113E+11,48,113,11500,1,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
14 13,4.8113E+11,4.8113E+11,48,113,12301,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
15 14,4.8113E+11,4.8113E+11,48,113,12301,3,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
16 15,4.8329E+11,4.8329E+11,48,329,304,3,372,"Midland-Odessa, TX",33260,"Midland, TX",1698
17 16,4.8329E+11,4.8329E+11,48,329,305,2,372,"Midland-Odessa, TX",33260,"Midland, TX",1698
18 17,4.8113E+11,4.8113E+11,48,113,12302,1,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
19 18,4.8113E+11,4.8113E+11,48,113,12302,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
20 19,4.8113E+11,4.8113E+11,48,113,13105,3,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
21 20,4.8113E+11,4.8113E+11,48,113,13104,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
22 21,4.8113E+11,4.8113E+11,48,113,13400,1,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
23 22,4.8113E+11,4.8113E+11,48,113,13607,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
24 23,4.8329E+11,4.8329E+11,48,329,305,1,372,"Midland-Odessa, TX",33260,"Midland, TX",1698
25 24,4.8329E+11,4.8329E+11,48,329,305,5,372,"Midland-Odessa, TX",33260,"Midland, TX",1698
26 25,4.8329E+11,4.8329E+11,48,329,401,1,372,"Midland-Odessa, TX",33260,"Midland, TX",1698
27 26,4.8329E+11,4.8329E+11,48,329,402,1,372,"Midland-Odessa, TX",33260,"Midland, TX",1698
28 27,4.8329E+11,4.8329E+11,48,329,402,2,372,"Midland-Odessa, TX",33260,"Midland, TX",1698
29 28,4.8329E+11,4.8329E+11,48,329,402,3,372,"Midland-Odessa, TX",33260,"Midland, TX",1698
30 29,4.8113E+11,4.8113E+11,48,113,13608,1,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
31 30,4.8113E+11,4.8113E+11,48,113,13610,1,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
32 31,4.8113E+11,4.8113E+11,48,113,13610,3,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
33 32,4.8113E+11,4.8113E+11,48,113,14901,1,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
34 33,4.8113E+11,4.8113E+11,48,113,15202,1,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
35 34,4.8113E+11,4.8113E+11,48,113,15204,2,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
36 35,4.8113E+11,4.8113E+11,48,113,15204,6,206,"Dallas-Fort Worth, TX-OK",19100,"Dallas-Fo
```

成功运行脚本



```
1 main.py > ...
2 import pandas as pd
3
4 def main():
5     """
6     Answers the question:
7
8     What percentage of U.S. residents live highly walkable neighborhoods?
9
10    "15.26" is the threshold on the index for a highly walkable area.
11
12    csv_file = "./EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv"
13    highly_walkable = 15.26
14
15    df = pd.read_csv(csv_file)
16
17    total_population = df["TotPop"].sum()
18    highly_walkable_pop = df[df["NatWalkInd"] >= highly_walkable]["TotPop"].sum()
19
20    percentage = (highly_walkable_pop / total_population) * 100.0
21
22    print(f"{percentage:.2f}% of U.S. residents live in highlywalkable neighborhoods.")
23
24
25 if __name__ == "__main__":
26     main()
27
```