```
胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/mywork $ python mywork.py

胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/mywork $ ls -l total 1 -rw-r--r-- 1 胡 197121 22 3月 23 13:51 mywork.py

胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/mywork $ cat mywork.py print("hello world")

胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/mywork $ |
```

### 创建 3.12python

```
胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/mywork
$ conda create -n mywork python=3.12 openpyxl polars
WARNING: A conda environment already exists at 'D:\Anaconda\envs\mywork'
```

#### 查看配置信息

```
胡@LAPTOP-V1BKRF4A MINGW64 ~
$ conda info
     active environment : base
    active env location : D:\Anaconda
            shell level : 1
       user config file : C:\Users\胡\.condarc
 populated config files : D:\Anaconda\.condarc
                           C:\Users\胡\.condarc
          conda version : 24.11.3
    conda-build version: 24.9.0
         python version : 3 12 7 final a
                 solver : | https://repo.anaconda.com/pkgs/r/win-64
                            按住 Ctrl 并单击可访问链接
       virtual packages : _
                           __conda=24.11.3=0
                           __cuda=12.3=0
                           __win=0=0
       base environment : D:\Anaconda (writable)
      conda av data dir : D:\Anaconda\etc\conda
```

查看 conda 的环境名称和路径

```
問 @LAPTOP-V1BKRF4A MINGW64 ~

$ conda environments:

# base * D:\Anaconda

(base)

胡 @LAPTOP-V1BKRF4A MINGW64 ~

创建两个 conda 环境

(Dase)

胡 @LAPTOP-V1BKRF4A MINGW64 ~
```

## Package Plan ##

environment location: D:\Anaconda\envs\prj1



```
胡 @LAPTOP-V1BKRF4A MINGW64 ~

$ 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:\Anaconda\envs\prj2

added / updated specs:
```

| 名标     | 修改日期            | 类型  | 大小 |
|--------|-----------------|-----|----|
| 🗀 prj1 | 2025/3/23 14:59 | 文件夹 |    |
| 🚞 prj2 | 2025/3/23 15:03 | 文件夹 |    |
|        |                 |     |    |

```
胡@LAPTOP-V1BKRF4A MINGW64 ~
$ conda activate prj1
(prj1)
玥@LAPTOP-V1BKRF4A MINGW64 ~
$ which python
/d/Anaconda/envs/prj1/python
(prj1)
钥@LAPTOP-V1BKRF4A MINGW64 ~
$ python --version
Python 3.12.9
(prj1)
胡@LAPTOP-V1BKRF4A MINGW64 ~
$ python
Python 3.12.9 | packaged by Anaconda, Inc.
Type "help", "copyright", "credits" or "licen
>>> quit()
(pril)
```

```
胡@LAPTOP-V1BKRF4A MINGW64 ~
$ conda activate prj2
(prj2)
胡@LAPTOP-V1BKRF4A MINGW64 ~
$ which python
/d/Anaconda/envs/prj2/python
(prj2)
胡@LAPTOP-V1BKRF4A MINGW64 ~
$ python version
D:\Anaconda\envs\prj2\python.exe
(prj2)
胡@LAPTOP-V1BKRF4A MINGW64 ~
$ python --version
Python 3.9.21
(prj2)
```

使用 conda list 查看软件包列表

```
胡@LAPTOP-V1BKRF4A MINGW64 ~
 $ conda list
 # packages in environment at D:\Anaconda\envs\prj2:
 # Name
                            Version
                                                       Build Channe
 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
                            2023.1.0
                                              h59b6b97_46320
                            2023.1.0
                                              h6b88ed4_46358
 mkl
 mkl-service
                            2.4.0
                                              py39h827c3e9_2
 mkl_fft
                            1.3.11
                                              py39h827c3e9_0
                            1.2.8
                                              py39hc64d2fc_0
 mkl_random
 numexpr
                            2.10.1
                                              py39h4cd664f_0
 numpy
                            2.0.2
                                              py39h055cbcc_0
 numpy-base
                                              py39h65a83cf_0
                            2.0.2
                                                  h3f729d1_0
                            3.0.16
 openssl
                            24.2
                                              py39haa95532_0
 packaging
利
       用
                                     安
                                            装
                                                    软
                                                           件
                                                                   包
               conda
                          install
ipython
```

#### 配置清华镜像

```
condarc
channels:
conda-forge
leading channels:
conda-forge
leading channel channels:
channels:
channels:
channels:
channels:
channels:
channels:
channels:
channels:
conda-forge: https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/msys2
custom_channels:
conda-forge: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
pytorch: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud
channel priority: strict
```

```
月@LAPTOP-V1BKRF4A MINGW64 ~
conda activate prj1
(prj1)
月@LAPTOP-V1BKRF4A MINGW64 ~
conda install polars
Channels:

    conda-forge

    defaults

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):
Solving environment: done
```

## 用 pip install

```
$ python -m pip install --upgrade pip
Requirement already satisfied: pip in d:\anaconda\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 3.6 MB/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
(prj1)
胡@LAPTOP-V1BKRF4A MINGW64 ~
$ pip config set global.index-url https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple
Writing to C:\Users\胡\AppData\Roaming\pip\pip.ini
$ python
Python 3.12.7 | packaged by Anaconda, Inc. | (main, Oct 4 2024, 13:17:2
Type "help", "copyright", "credits" or "license" for more information.
>>> import tushare
>>> tushare.__version__
'1.4.19'
```

# 导出环境资源文件,并删除 conda 文件

```
@LAPTOP-V
conda env
export
```

```
- conda-forge
- defaults

    https://repo.anaconda.com/pkgs/main

- https://repo.anaconda.com/pkgs/r
https://repo.anaconda.com/pkgs/msys2
.
- _anaconda_depends=2024.10=py312_mkl_0
- aext-assistant=4.1.0=py312haa95532_jl4_0
- aext-assistant-server=4.1.0=py312haa95532_0
  aext-core-server=4.1.0=py312haa95532_0
- aext-panels=4.1.0=py312haa95532_0
- aext-panels-server=4.1.0=py312haa95532_0
  aext-project-filebrowser-server=4.1.0=py312haa95532_0
- aext-share-notebook=4.1.0=py312haa95532_0
- aext-share-notebook-server=4.1.0=py312haa95532_0
  aiobotocore=2.12.3=py312haa95532_0
- aiohappyeyeballs=2.4.0=py312haa95532_0
- aiohttp=3.10.5=py312h827c3e9_0
- aioitertools=0.7.1=pyhd3eb1b0_0
- aiosignal=1.2.0=pyhd3eb1b0_0
- alabaster=0.7.16=py312haa95532_0
- alembic=1.13.3=py312haa95532_0
- altair=5.0.1=py312haa95532_0
  anaconda-anon-usage=0.4.4=py312hfc23b7f_100
- anaconda-catalogs=0.2.0=py312haa95532 1
- anaconda-cli-base=0.4.2=py312haa95532_0
- anaconda-client=1.13.0=py312haa95532_0
- anaconda-cloud-auth=0.7.2=py312haa95532_0
- anaconda-navigator=2.6.3=py312haa95532 0
anaconda-project=0.11.1=py312haa95532_0
- anaconda-toolbox=4.1.0=py312haa95532_0
- anaconda_powershell_prompt=1.1.0=haa95532_
```

```
胡@LAPTOP-V1BKRF4A MINGW64 ~
$ conda env list
# conda environments:
# base D:\Anaconda
prj2 D:\Anaconda\envs\prj2
```

```
胡@LAPTOP-V1BKRF4A MINGW64 ~/repo
$ cd myproject
(base)
胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/myproject
$ cat environment.yml
name: myproject
channels:
   - conda-forge
dependencies:
   - python=3.12(base)
胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/myproject

$ cd myproject
```

```
@LAPTOP-V1BKRF4A MINGW64 ~/repo/myproject
$ conda activate myproject
(myproject)
 @LAPTOP-V1BKRF4A MINGW64 ~/repo/myproject
$ conda list
# packages in environment at D:\Anaconda\envs\myproject:
# Name
                           Version
                                                       Build Channel
                                                 h2466b09_7
h56e8100_0
                           1.0.8
                                                                 conda-forge
bzip2
ca-certificates
                           2025.1.31
                                                                 conda-forge
libexpat
                           2.6.4
                                                 he0c23c2_0
                                                                 conda-forge
libffi
                           3.4.6
                                                                 conda-forge
                                                 h537db12_0
liblzma
                           5.6.4
                                                 h2466b09_0
                                                                 conda-forge
                                                 h67fdade_2
h2466b09_2
                           3.49.1
                                                                conda-forge
libsqlite
libzlib
                           1.3.1
                                                                 conda-forge
                                                 ha4e3fda_0
                                                                 conda-forge
                           3.4.1
openssl
                                                                conda-forge
                           25.0.1
                                               pyh8b19718_0
pip
                                            h3f84c4b_1_cpython
python
                           3.12.9
                                                                    conda-forge
setuptools
                           75.8.2
                                               pyhff2d567_0
                                                                conda-forge
                                                 h5226925_1
h78e105d_0
                                                                 conda-forge
tk
                           8.6.13
tzdata
                           2025a
                                                                 conda-forge
                                                 h57928b3_1
                                                                conda-forge
ucrt
                           10.0.22621.0
                           14.3
                                                hbf610ac_24
                                                                 conda-forge
VC
                           14.42.34438
vc14_runtime
                                                hfd919c2_24
                                                                 conda-forge
wheel
                           0.45.1
                                                pyhd8ed1ab_1
                                                                conda-forge
(myproject)
```

```
(myproject)
胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/myproject
$ python main.py
Hello, conda!
(myproject)
胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/myproject
$
```

```
main.py > ...

if __name__ == "__main__":
    main()
    import pandas as pd

def main():
    """

Answers the question:

what percentage of U.S. residents live highly walkable neighborhoods?

"""

"""

scy_file = "./EPA_SmartLocationDatabase_V3_Jan_2021_Final.csv"
    highly_walkable = 15.26

df = pd.read_csv(csv_file)

total_population = df["TotPop"].sum()
    highly_walkable_pop = df[df["NatWalkInd"] >= highly_walkable]["TotPop"].sum()

percentage = (highly_walkable_pop / total_population) * 100.0

print(
    f"(percentage:.2f)% of U.S. residents live in highly" "walkable neighborhoods."

if __name__ == "__main__":
    main()
```