clone 至本地

```
(base) 31776@0000100 MINGW64 ~/repo
$ git clone https://gitcode.com/kJM04/week04.git
Cloning into 'week04'...
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 5 (delta 0), reused 5 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (5/5), 8.43 KiB | 479.00 KiB/s, done.
(base) 31776@====100 MINGW64 ~/repo
$ cd week04
(base) 31776@====1== MINGW64 ~/repo/week04 (main)
$ git remote show origin
* remote origin
  Fetch URL: https://gitcode.com/KJM04/week04.git
   Push URL: https://gitcode.com/KJM04/week04.git
   HEAD branch: main
   Remote branch:
     main tracked
   Local branch configured for 'git pull':
    main merges with remote main
   Local ref configured for 'git push':
     main pushes to main (up to date)
```

复制

```
(base) 31776@□□□□l'□□ MINGW64 ~/repo/week04 (main)
$ cp ../myproject/environment.yml ./

(base) 31776@□□□□l'□□ MINGW64 ~/repo/week04 (main)
$ ls -l
total 25
-rw-r--r-- 1 31776 197609 87 3月 29 06:49 environment.yml
-rw-r--r-- 1 31776 197609 18805 3月 29 06:12 LICENSE
-rw-r--r-- 1 31776 197609 2239 3月 29 06:12 README.md
```

配置环境

```
(base) 31776@□□□□□□□ MINGW64 ~/repo/week04 (main)
$ ls -l
total 25
-rw-r--r-- 1 31776 197609 87 3月 29 06:49 environment.yml
done
#
# To activate this environment, use
#
# $ conda activate week04
#
# To deactivate an active environment, use
#
# $ conda deactivate
```

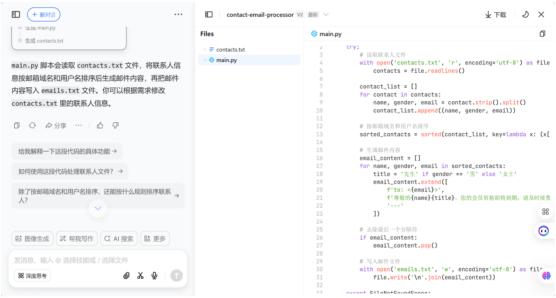
vs code 中导入数据



读取

```
(base) 31776@□□□□t□□ MINGW64 ~/repo/week04 (main)
cat contacts.txt
白展堂 男 baizhantang@163.com
冬湘玉 女 tongxiangyu@163.com
吕轻侯 男 lvqinghou@126.com
郭芙蓉 女 guofurong@126.com
李秀莲 男 lixiulian@163.com
况无双 女 zhuwushuang@163.com
```

询问大模型



配置 python 解释器



生成文件

```
(week04)
31776@0000100 MINGW64 ~/repo/week04 (main)
$ pvthon main.pv
(week04)
31776@====l== MINGW64 ~/repo/week<mark>04 (main)</mark>
$ ls -l
total 31
-rw-r--r-- 1 31776 197609
                                204 3月 29 07:14 contacts.txt
                               659 3月 30 03:03 emails.txt
72 3月 29 06:52 environment.yml
-rw-r--r-- 1 31776 197609
-rw-r--r-- 1 31776 197609
 -rw-r--r-- 1 31776 197609 18805 3月 29 06:12 LICENSE
-rw-r--r-- 1 31776 197609 1368 3月 29 08:28 main.py
-rw-r--r-- 1 31776 197609 2239 3月 29 06:12 README.md
  ≡ emails.txt
    1
        to: <guofurong@126.com>
        尊敬的郭芙蓉女士, 您的会员资格即将到期, 请及时续费。
    2
    3
    4
        to: <lvqinghou@126.com>
        尊敬的吕轻侯先生,您的会员资格即将到期,请及时续费。
    5
    6
```

尊敬的白展堂先生,您的会员资格即将到期,请及时续费。

尊敬的李秀莲先生,您的会员资格即将到期,请及时续费。

尊敬的佟湘玉女士,您的会员资格即将到期,请及时续费。

7

9

10

11 12 13

14 15 to: <baizhantang@163.com>

to: <lixiulian@163.com>

to: <tongxiangyu@163.com>

```
to: <zhuwushuang@163.com>
  16
     尊敬的祝无双女士,您的会员资格即将到期,请及时续费。
  17
$ cat emails.txt
to: <guofurong@126.com>
尊敬的郭芙蓉女士,您的会员资格即将到期,请及时续费。
to: <lvqinghou@126.com>
尊敬的吕轻侯先生,您的会员资格即将到期,请及时续费。
to: <baizhantang@163.com>
尊敬的白展堂先生,您的会员资格即将到期,请及时续费。
to: <lixiulian@163.com>
尊敬的李秀莲先生,您的会员资格即将到期,请及时续费。
to: <tongxiangyu@163.com>
尊敬的佟湘玉女士,您的会员资格即将到期,请及时续费。
to: <zhuwushuang@163.com>
```

```
运行调试器
(week04)
31776@pppclop MINGW64 ~/repo/week04 (main)
$ python -m pdb main.py
> c:\users\31776\repo\week04\main.py(1)<module>()
-> def process_contacts():
(Pdb)
命令: l(list), n(next), p(print), s(step in), pp(), c()
亲手验证概念, proof of concepts
    -> def process_contacts():
  2
           try:
  3
              # 读取联系人文件
              with open('contacts.txt', 'r', encoding='utf-8') as file:
                  contacts = file.readlines()
  5
  7
              contact_list = []
 8
              for contact in contacts:
                  name, gender, email = contact.strip().split()
 10
                  contact_list.append((name, gender, email))
 11
(Pdb) n
> c:\users\31776\repo\week04\main.py(39)<module>()
-> if __name__ == "__main__":
(Pdb) p process_contacts
<function process_contacts at 0x0000018A45B3F920>
(Pdb) s
> c:\users\31776\repo\week04\main.py(40)<module>()
-> process_contacts()
(Pdb) p name
'吕轻侯'
(Pdb) p gender
'男'
(Pdb) p email
无双女 zhuwushuang@163.com\n']
                      cmare in Joreca_concaces
(Pdb) pp sorted_contacts
[('郭芙蓉', '女', 'guofurong@126.com'),
('吕轻侯', '男', 'lvqinghou@126.com'),
('白展堂', '男', 'baizhantang@163.com'
                   'baizhantang@163.com'),
             '男'
 ('李秀莲'
                   'lixiulian@163.com'),
 ('佟湘玉',
             '矣',
                   'tongxiangyu@163.com')
 ('祝无双'
                   'zhuwushuang@163.com')]
(Pdb) c
The program finished and will be restarted
> c:\users\31776\repo\week04\main.py(1)<module>()
```

-> def process_contacts():

更新环境

```
(week04)
$ conda env update
D:\Apps\Anaconda\Lib\argparse.py:2006: FutureWarning: \remote_definition\ is deprecated and will be removed in 25.9. Use
\text{conda env create --file=URL\ instead.}
\text{action(self, namespace, argument_values, option_string)}
Channels:
- conda-forge
- defaults
   - derautts
- 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): done
 Solving environment: done
# To activate this environment, use
          $ conda activate week04
# To deactivate an active environment, use
          $ conda deactivate
```

调试 wat

```
DDDDCDD MINGW64 ~/repo/week04 (main)
$ python -m pdb main.py
> c:\users\31776\repo\week04\main.py(1)<module>()
-> def process_contacts():
(Pdb) l
     -> def process_contacts():
  2
             try:
  3
                  # 读取联系人文件
                  with open('contacts.txt', 'r', encoding='utf-8') as file:
    contacts = file.readlines()
  6
  7
                  contact_list = []
                  for contact in contacts:
  8
                       name, gender, email = contact.strip().split()
  9
 10
                       contact_list.append((name, gender, email))
 11
(Pdb) wat
*** NameError: name 'wat' is not defined
(Pdb) import wat
(Pdb) wat
Try wat / object or wat.modifiers / object to inspect an object. Modifiers are:
    .short or .s to hide attributes (variables and methods)
  .dunder to print dunder attributes
  .code to print source code of a function, method or class .long to print non-abbreviated values and documentation
  .nodocs to hide documentation for functions and classes
  .caller to show how and where the inspection was called
  .all to include all information
  ret to return the inspected object
.str to return the output string instead of printing
.gray to disable color+ul output in the console
    color to enforce colorful outputs in the console
Call wat.locals or wat() to inspect local variables.
Call wat.globals to inspect global variables.
(Pdb) wat()
Local variables:
   __builtins__: dict = {...
   __file__: pdb._ScriptTarget = 'C:\Users\31776\repo\week04\main.py'
__name__: str = '__main__'
   __pdb_convenience_variables: dict = {...
     _spec__: NoneType = None
   wat: wat.inspection.inspection.Wat = <WAT Inspector object>
 (Pdb) p __name__
    _main_
```