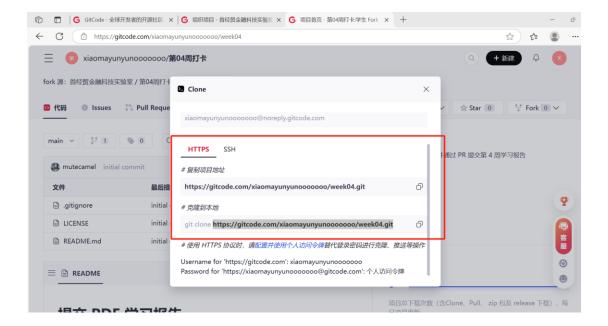
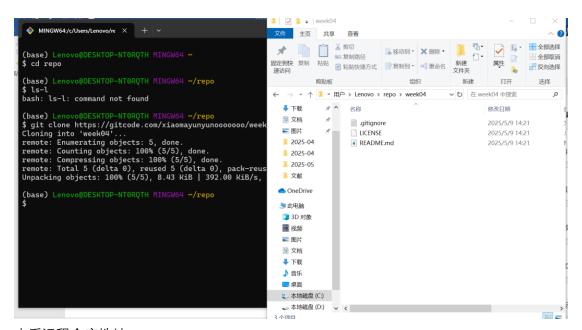
Week04 学习笔记

Fork 第 04 周打卡 仓库至你的名下,然后将你名下的这个仓库 Clone 到你的本地计算机:

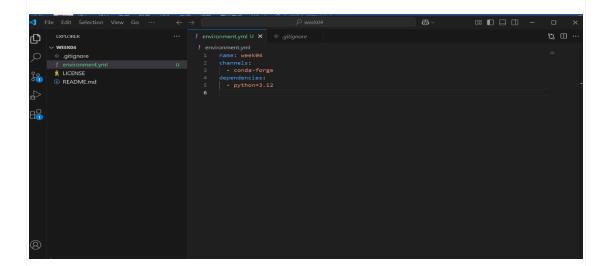




查看远程仓库地址:

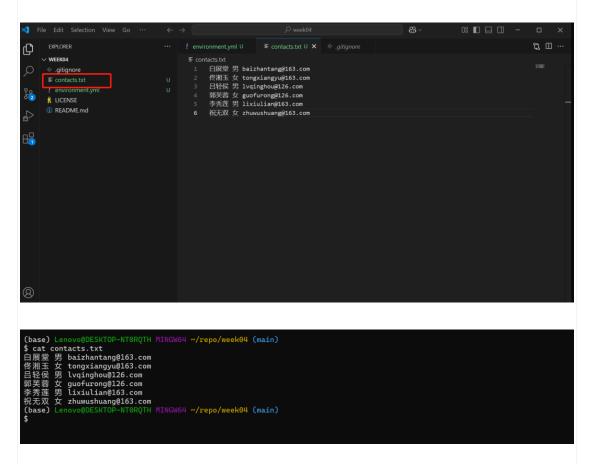
用 VS Code 打开项目目录,新建一个 environment.yml 文件,指定安装 Python 3.12,

然后运行 conda env create 命令创建 Conda 环境:



```
(base) Lenovo@DESKTOP-NTORQTH MINGW64 --/repo/week84 (main)
$ cat environment.yml
name: prj1
channels:
- conda-forge
- https://repo.anaconda.com/pkgs/main
- https://repo.anaconda.com/pkgs/msys2
dependencies:
- brotli-python=1.1.0=py312h275cf98_2
- bzip2=1.0.8=h2466b09_7
- ca-certificates=2025.1.31=h56e8100_0
- certifi:2025.1.31=pyhd8edlab_0
- certifi:2025.1.31=pyhd8edlab_0
- charset-normalizer=3.4.1=pyhd8edlab_0
- h2=4.2.0=pyhd8edlab_0
- hpack=4.1.0=pyhd8edlab_0
- hpack=4.1.0=pyhd8edlab_0
- indna=3.10=pyhd8edlab_1
- intel-popemp=204.2.1=h57928b3_1083
- libblas=3.9.0=31.h64ld27c_mkl
- libcubas=3.9.0=31.h64ld27c_mkl
- liblapack=3.9.0=31.h64ld27c_mkl
- liblapack=3.9.0=31.h1ad76e_mkl
- liblapack=3.9.0=31.h1ad76e_mkl
- liblapack=3.9.0=31.h1ad76e_mkl
- liblapack=3.9.0=31.h1ad76e_mkl
- liblapack=3.9.0=31.h1ad76e_mkl
```

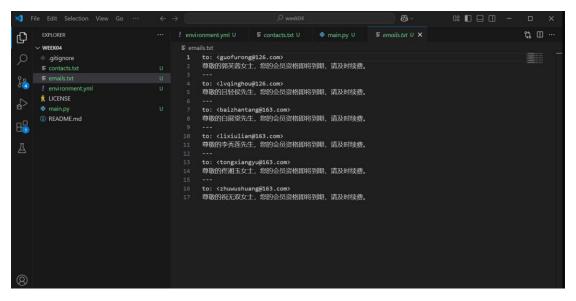
新建一个 contacts.txt 文件,每行写一个联系人,每个联系人都包含姓名、性别、邮箱三个字段,用空格分隔,例如:



将以上"任务要求"的文本,复制粘贴到大模型 (比如豆包、DeepSeek) 里,请 AI 来帮助编写程序初稿:



运行 python main.py 命令 (作用是启动 Python 解释器,执行 main.py 里的代码直至结束 (EOF) 或报错 (Exception)),检查运行结果是否符合预期:



```
● MINGW64/z/Users/Lenovo/nt × 中 ● email, name, title = contact[2], contact[3], contact[4] output.append(f"to: <{email}>\ning \text{mith} on the post of the post
```

运行 python -m pdb main.py 命令 (作用是以调试模式 (debug mode) 启动 Python 解释器, 准备执行 main.py 里的代码):

在 (pdb) 提示符下练习使用 I (显示代码)、n (执行当前行)、p (打印表达式)、s (步入调用)、pp (美观打印)、c (继续执行) 等命令 (参考文档):

```
♦ MINGW64:/c/Users/Lenovo/rε × + ∨
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>
尊敬的祝无双女士,您的会员资格即将到期,请及时续费。(week04)
Lenovo@DESKTOP-NTORQTH MINGW64 ~/repo/week04 (main)
$ ls-l
bash: ls-l: command not found
(week04)
 _enovo@DESKTOP-NTORQTH MINGW64 ~/repo/week04 (main)
$ rm emails.txt
(week04)
 Lenovo@DESKTOP-NTORQTH MINGW64 ~/repo/week04 (main)
$ python -m pdb main.py
> c:\users\lenovo\repo\week04\main.py(2)<module>()
-> with open('contacts.txt', 'r', encoding='utf-8') as f:
(Pdb)
(Pdb) l
      # 读取联系人文件
-> with open('contacts.txt', 'r', encoding='utf-8') as f:
lines = f.readlines()
  4
         # 解析联系人信息并排序
contacts = []
for line in lines:
    parts = line.strip().split()
  6
7
  9
              if len(parts) == 3:
                  name, gender, email = parts
username, domain = email.split('@')
 10
 11
(Pdb)
```

```
♦ MINGW64:/c/Users/Lenovo/re × + ×
   rm emails.txt
# 解析联系人信息并排序
contacts = []
for line in lines:
    parts = line.strip().split()
    if len(parts) == 3:
        name, gender, email = parts
        username, domain = email.split('@')
 10
 (Pdb) l
                            title = '先生' if gender == '男' else '女士'
contacts.append((domain, username, email, name, title))
12
13
14
15
16
17
18
19
20
21
22
(Pdb)
             # 先按域名排序,再按用户名排序
contacts.sort(key=lambda x: (x[0], x[1]))
             # 生成邮件内容
output = []
for contact in contacts:
    enail, name, title = contact[2], contact[3], contact[4]
    output.append(f"to: <{email}>\n尊敬的{name}{title}, 您的会员资格即将到期,请及时续费。\n---")
               # 生成邮件内容
output = []
for contact in contacts:
    email, name, title = contact[2], contact[3], contact[4]
output.append(f"to: <{email}>\n尊敬的{name}{title}, 您的会员资格即将到期,请及时续费。\n---")
   18
19
20
21
 (Pdb) ll
          # 读取联系人文件
--> with open('contacts.txt', 'r', encoding='utf-8') as f:
lines = f.readlines()
   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 22 23 24 25 26
               # 解析联系人信息并排序
contacts = []
for line in lines:
    parts = line.strip().split()
    if len(parts) == 3:
        name, gender, email = parts
        username, domain = email.split('@')
        title = '先生' if gender == '男' else '女士'
        contacts.append((domain, username, email, name, title))
                # 先按域名排序,再按用户名排序
contacts.sort(key=lambda x: (x[0], x[1]))
                # 生成邮件内容
output = []
for contact in contacts:
    email, name, title = contact[2], contact[3], contact[4]
    output.append(f"to: <{email}>\n尊敬的{name}{title}, 您的会员资格即将到期,请及时续费。\n---")
                # 写入输出文件
with open('emails.txt', 'w', encoding='utf-8') as f:
f.write('\n'.join(output).rstrip('-\n')) # 移除最后一个分隔符后的空行
```

```
♦ MINGW64:/c/Users/Lenovo/re ×

              List source code for the current file. Without arguments, list 11 lines around the current line or continue the previous listing. With . as argument, list 11 lines around the current line. With one argument, list 11 lines starting at that line. With two arguments, list the given range; if the second argument is less than the first, it is a count.
               The current line in the current frame is indicated by "->". If an exception is being debugged, the line where the exception was originally raised or propagated is indicated by ">>", if it differs from the current line.
 (Pdb) l .
304
                              This subclass of IncrementalDecoder can be used as the baseclass for an incremental decoder if the decoder must be able to handle incomplete
 305
 306
307
308
309
                             def __init__(self, errors='strict'):
    IncrementalDecoder.__init__(self, errors)
    # undecoded input that is kept between calls to decode()
    self.buffer = b""
 310
311
312
314 de
(Pdb) l 30,39
30
31
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33
34
35 ### Co
36
 314
                              def _buffer_decode(self, input, errors, final):
                                                "strict_errors", "ignore_errors", "replace_errors",
"xmlcharrefreplace_errors",
"backslashreplace_errors", "namereplace_errors",
"register_error", "lookup_error"]
                    ### Constants
                     # Byte Order Mark (BOM = ZERO WIDTH NO-BREAK SPACE = U+FEFF)
```

在调试过程中,利用 wat-inspector (第三方软件包,需要安装) 检查 (inspect) 各种对

象: