1. Fork 第 04 周打卡仓库并 Clone 到本地计算机

```
(base) 16386800 000000 MINGW64 ~/repo

(base) 16386800 000000 MINGW64 ~/repo

$ is -l
total 4
drwxr-xr-x 1 16386 197609 0 3月 22 16:47 myproject/
drwxr-xr-x 1 16386 197609 0 3月 15 18:23 mywork/
drwxr-xr-x 1 16386 197609 0 3月 22 15:26 prj1/

(base) 16386800 000000 MINGW64 ~/repo

$ git clone https://gitcode.com/niuwen123/week04.git
Cloning into 'week04'...
remote: Enumerating objects: 5, done.
remote: Counting 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 | 227.00 KiB/s, done.

(base) 16386800 000000 MINGW64 ~/repo

$ cd week04/
(base) 16386800 000000 MINGW64 ~/repo/week04 (main)

$ pwd
/c/Users/16386/repo/week04

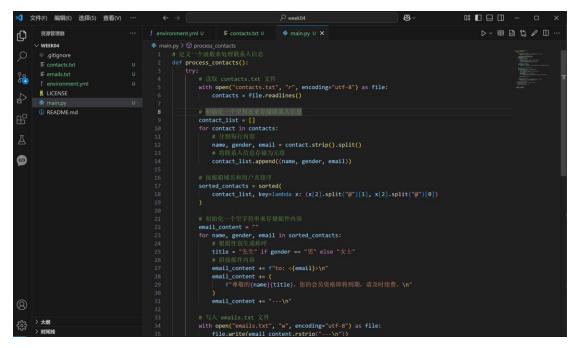
(base) 16386800 000000 MINGW64 ~/repo/week04 (main)

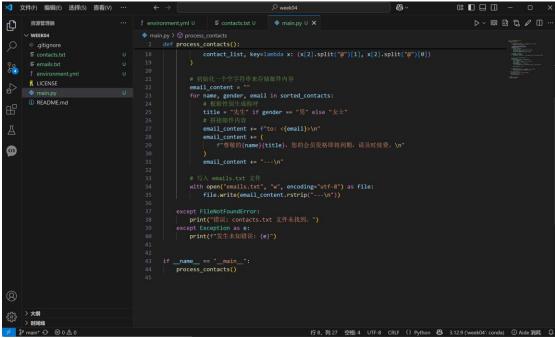
$ git remote show origin

* remote origin
```

2. 新建 environment.yml 文件, 安装 Python 3.12,创建 Conda 环境

3. 运用 ai 大模型生成代码,成功运行可以产生 emails.txt



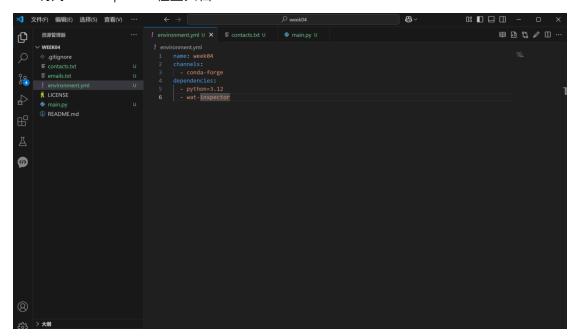


4. python -m pdb main.py 命令: 启动代码解释器 pdb 提示符下运行 | 命令: 显示代码运行到什么地方

n 命令: 执行当前行 ||命令: 显示所有代码 p 命令: 打印表达式 s 命令: 步入调用 c 命令: 继续运行 pp 命令: 美观打印

```
♦ MINGW64:/c/Users/16386/rep × + ∨
 16386@00_000000 MINGW64 ~/repo/week04 (main)
$ python -m pdb main.py
> c:\users\16386\repo\week04\main.py(2)<module>()
-> def process_contacts():
(Pdb) l
    # 定义一个函数来处理联系人信息
  4
5
6
7
8
9
                # 初始化一个空列表来存储联系人信息
contact_list = []
for contact in contacts:
# 分割每行内容
 10
11
print("错误: contacts.txt 文件未找到。")
except Exception as e:
print(f"发生未知错误: {e}")
 38
39
    -> if __name__ == "__main__":
    process_contacts()
 43
44
[EOF]
(Pdb) ll
                                                                                                             # 定义一个函数来处理联系人信息
```

5. 利用 wat-inspector 检查文档



6. python 基本概念的学习

Python 语法保留字: 下图粉色字体, 表示在语法上有特殊含义

```
0: 0 - 0
刘 文件(F) 编辑(E) 选择(S) 查看(V)
                                                                                                                   0
     资源管理器
    ∨ WEEK04
     gitignore contacts.txt

    # 定义一个函数来处理联系人
    def_process_contacts():

₹ LICENSE

    README.md

1
                                              contact_list.append((name, gender, email))
                                            # 按邮箱域名利用产名排序
sorted(
contact_list, key=lambda x: (x[2].split("@")[1], x[2].split("@")[0])
)
                                             # 初始化一个空字符串来存储邮件内容
email_content = ""
                                             for name, gender, email in sorted_contacts:
                                              # 對人 emails.txt 文 with open("emails.txt", "w", encoding="utf-8") as file:
file.write(email content.rstrip("---\n"))
行33.列27 空格-4 UTF-8
```

```
MINGW64/c/Userx/6386/re; X + V - □

done

# To activate this environment, use

# $ conda activate week04

# To deactivate an active environment, use

# $ conda deactivate

(Week04)

10386000 0000000 MINGW64 -/repo/week04 (main)

$ 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.

>>> name = "Men Niu"

>>> print(name)

Wen Niu

| SyntaxError: invalid syntax

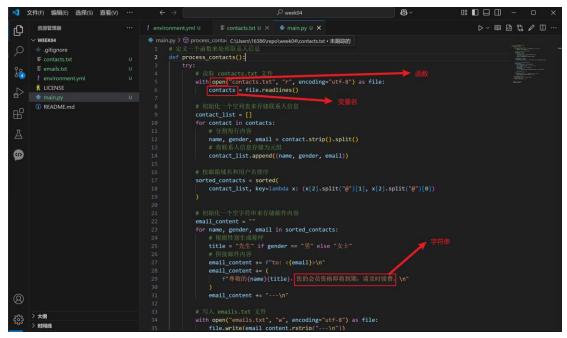
>>> which = 'Qiang Gao'

>>> print(which)

Qiang Gao

| P
```

语句和表达式:表达式是构成语句的元素



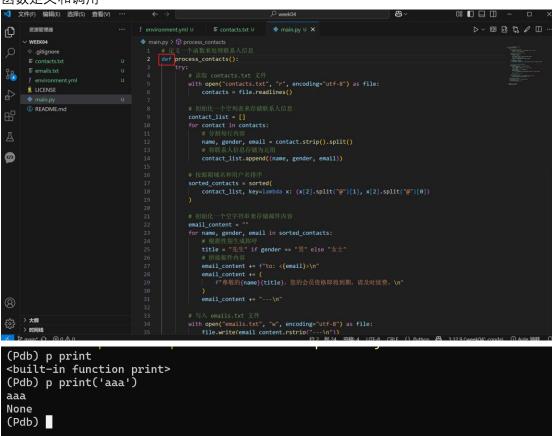
缩进: 代表层级

局部变量、全局变量

```
| MINGW64/d/Users/16386/rep | Year |
```

LEGB 规则: "LEGB" 分别代表 Local (局部作用域)、Enclosing (闭包作用域)、Global (全局作用域)、Built-in (内置作用域)

函数定义和调用



对象: 在内存里的数据

属性: 类型有的值方面的一些特点

方法: 类型能干什么事