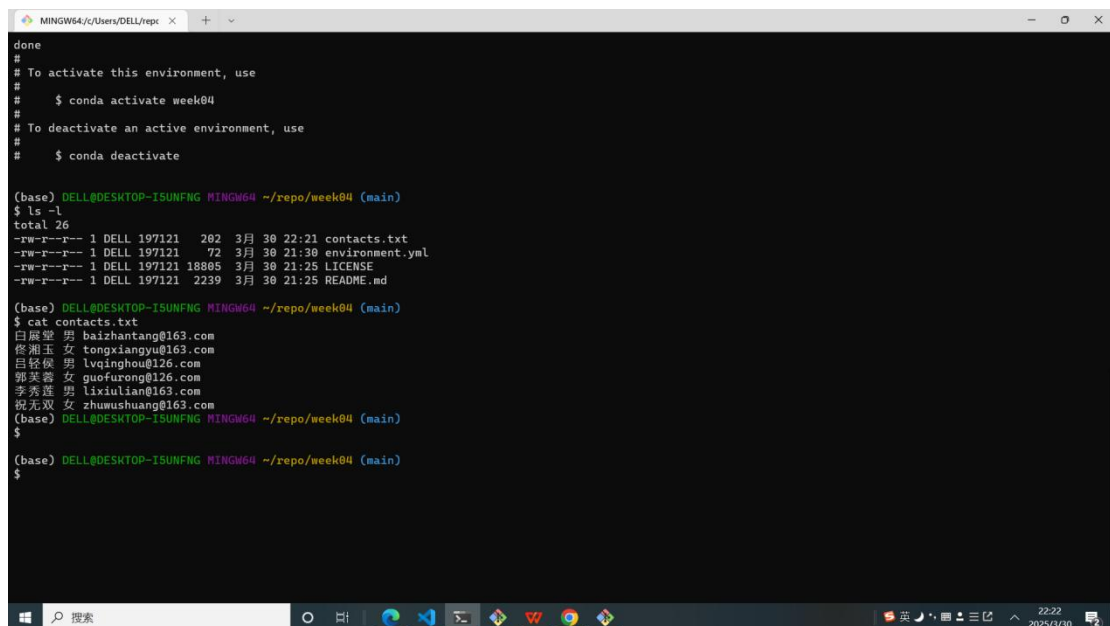
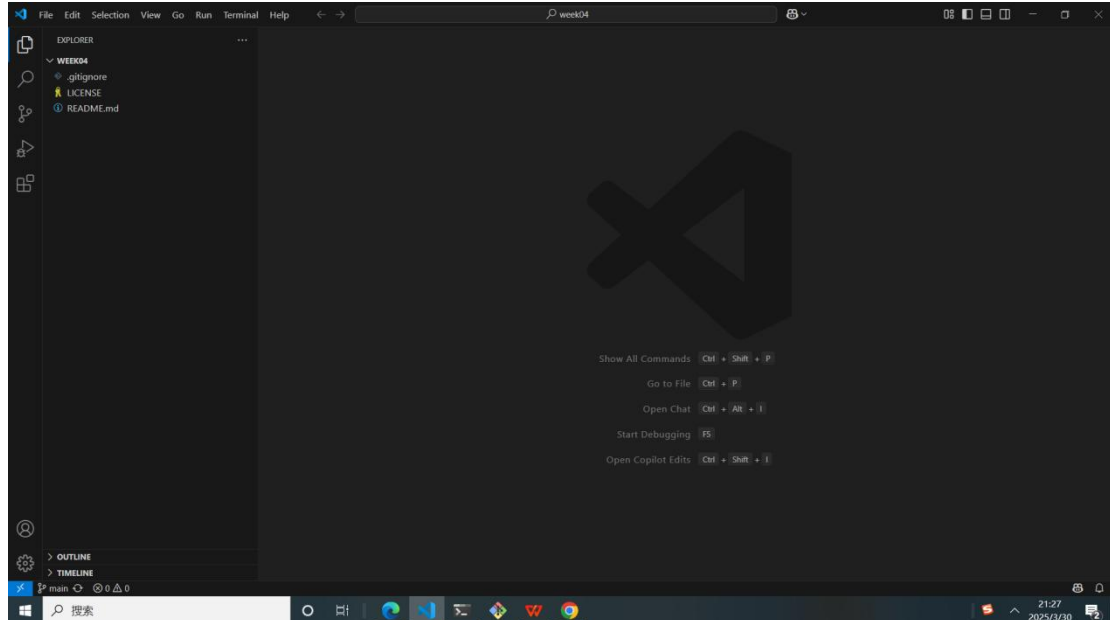
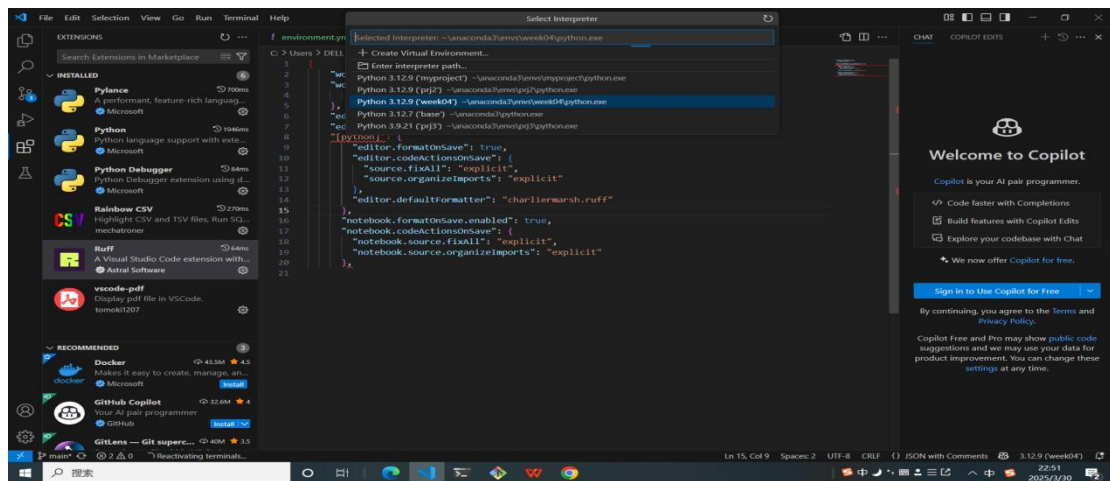
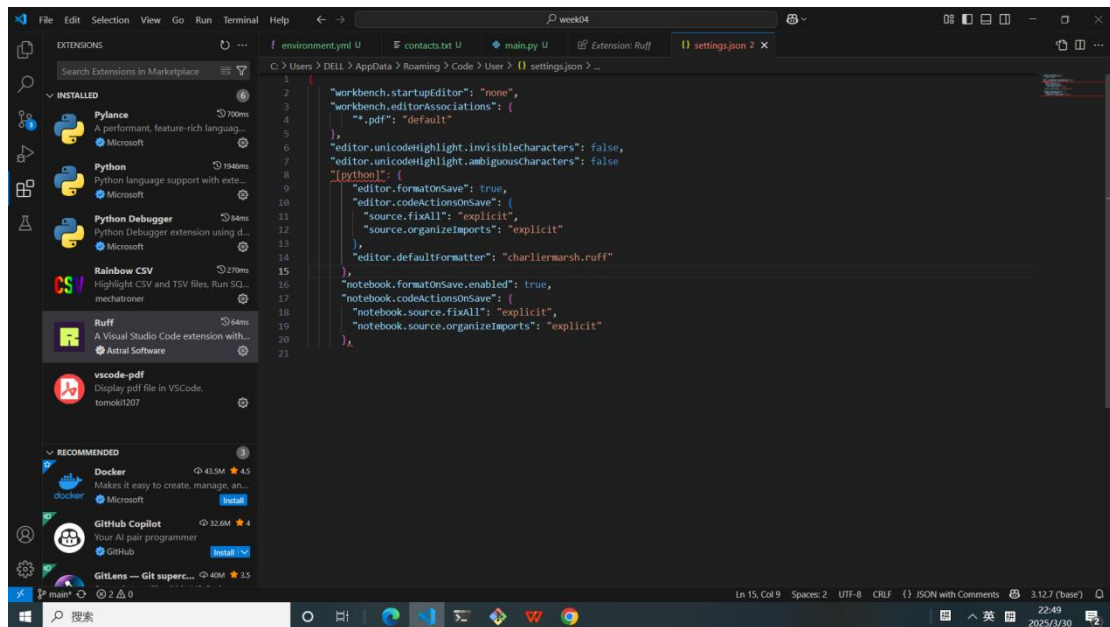
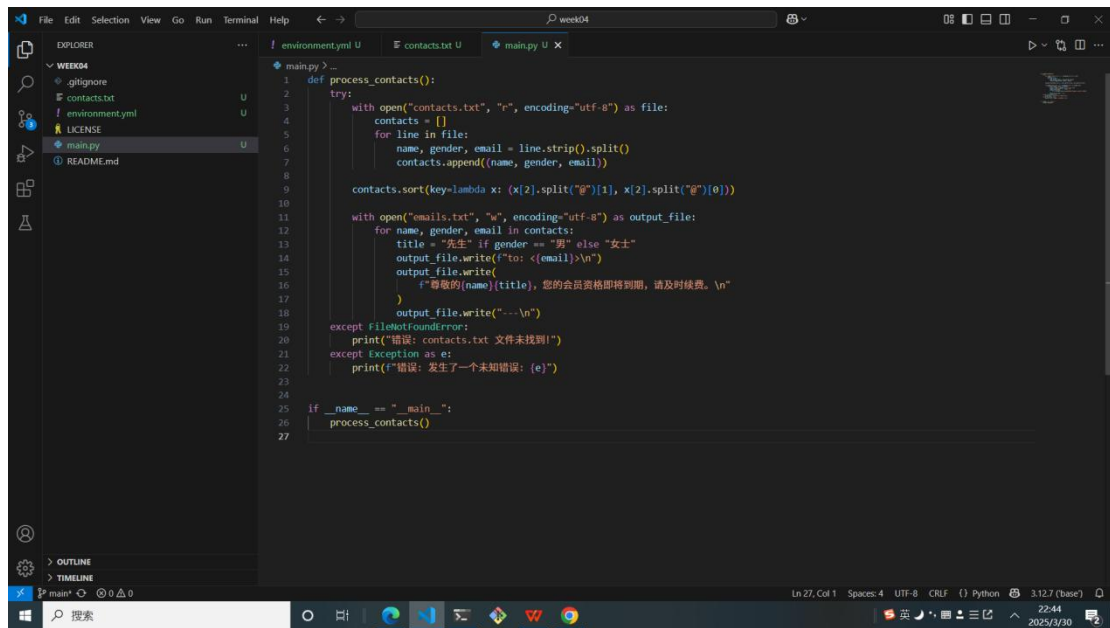


第四周作业报告





切换到 week04

```
try:
    with open("contacts.txt", "r", encoding="utf-8") as file:
        contacts = []
        for line in file:
            name, gender, email = line.strip().split()
            contacts.append((name, gender, email))

        contacts.sort(key=lambda x: (x[2].split("@")[1], x[2].split("@")[0]))

        with open("emails.txt", "w", encoding="utf-8") as output_file:
            for name, gender, email in contacts:
                title = "先生" if gender == "男" else "女士"
                output_file.write(f"to: <{email}>\n")
                output_file.write(
                    f"尊敬的{name}{title}, 您的会员资格即将到期, 请及时续费.\n"
                )
            output_file.write("---\n")
except FileNotFoundError:
    print("错误: contacts.txt 文件未找到!")
except Exception as e:
    print(f"错误: 发生了一个未知错误: {e}")

if __name__ == "__main__":
    process_contacts()
(week04)
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/week04 (main)
$ cat contacts.txt
白展堂 男 baizhantang@163.com
佟湘玉 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
祝无双 女 zhuwushuang@163.com
(week04)
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/week04 (main)
$ python main.py
(week04)
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/week04 (main)
$
```

未能成功生成，大模型给的代码有问题

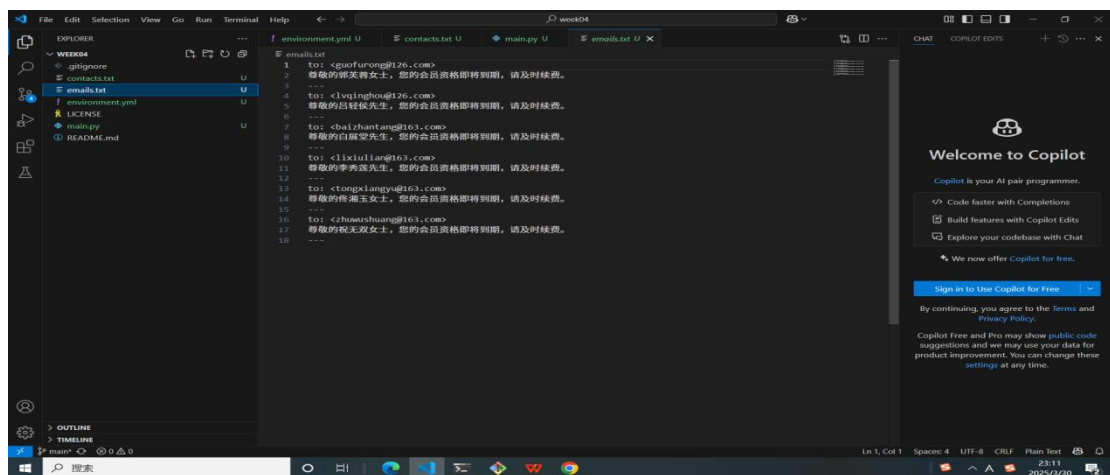
```
name, gender, email = line.strip().split()
contacts.append((name, gender, email))

contacts.sort(key=lambda x: (x[2].split("@")[1], x[2].split("@")[0]))

with open("emails.txt", "w", encoding="utf-8") as output_file:
    for name, gender, email in contacts:
        title = "先生" if gender == "男" else "女士"
        output_file.write(f"to: <{email}>\n")
        output_file.write(
            f"尊敬的{name}{title}, 您的会员资格即将到期, 请及时续费.\n"
        )
    output_file.write("---\n")
except FileNotFoundError:
    print("错误: contacts.txt 文件未找到!")
except Exception as e:
    print(f"错误: 发生了一个未知错误: {e}")

if __name__ == "__main__":
    process_contacts()
(week04)
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/week04 (main)
$ cat contacts.txt
白展堂 男 baizhantang@163.com
佟湘玉 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
祝无双 女 zhuwushuang@163.com
(week04)
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/week04 (main)
$ python main.py
(week04)
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/week04 (main)
$ python main.py
邮件文件生成成功!
(week04)
DELL@DESKTOP-ISUNFNG MINGW64 ~/repo/week04 (main)
$
```

改正后，成功生成邮件。



```
25         output_file.write("\n".join(email_content))
26
27     print("邮件文件生成成功! ")
28     except FileNotFoundError:
29         print("错误: 未找到 contacts.txt 文件。")
30     except Exception as e:
31         print(f"错误: 发生了一个未知错误: {e}")
32
33
34 -> if __name__ == "__main__":
35     process_contacts()
(Pdb) p contacts
*** NameError: name 'contacts' is not defined
(Pdb) p read_contacts
*** SyntaxError: invalid syntax
(Pdb) s
> c:\users\de\l\repo\week04\main.py(35)<module>()
-> process_contacts()
(Pdb) n
邮件文件生成成功!
--Return--
> c:\users\de\l\repo\week04\main.py(35)<module>()->None
-> process_contacts()
(Pdb) p sort_contacts
*** NameError: name 'sort_contacts' is not defined
(Pdb) p contacts
*** NameError: name 'contacts' is not defined
(Pdb) p write_contacts
*** SyntaxError: invalid syntax
(Pdb) p write_contacts
*** NameError: name 'write_contacts' is not defined
(Pdb) l
30         except Exception as e:
31             print(f"错误: 发生了一个未知错误: {e}")
32
33
34     if __name__ == "__main__":
35 -> process_contacts()
[EOF]
(Pdb)
```

```
[EOF]
(Pdb) h l
Usage: l([list] [first[, last] | .])

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
[EOF]
(Pdb) l
30         except Exception as e:
31             print(f"错误: 发生了一个未知错误: {e}")
32
33
34     if __name__ == "__main__":
35 -> process_contacts()
[EOF]
(Pdb) l 1,5
1     def process_contacts():
2         try:
3             # 读取联系人文件
4             with open("contacts.txt", "r", encoding="utf-8") as file:
5                 contacts = file.readlines()
(Pdb) l 30,39
30         except Exception as e:
31             print(f"错误: 发生了一个未知错误: {e}")
32
33
34     if __name__ == "__main__":
35 -> process_contacts()
[EOF]
(Pdb)
```

1.看当前行上下五行

```
33
34     if __name__ == "__main__":
35 -> process_contacts()
[EOF]
(Pdb) p read_contacts
*** NameError: name 'read_contacts' is not defined
(Pdb) p contacts
*** NameError: name 'contacts' is not defined
(Pdb) p contacts_file
*** NameError: name 'contacts_file' is not defined
(Pdb) p len
<built-in function len>
(Pdb) p type
<class 'type'>
(Pdb) n
--Return--
> <string>(1)<module>()->None
(Pdb)
The program finished and will be restarted
> c:\users\de\l\repo\week04\main.py(1)<module>()
-> def process_contacts():
(Pdb)
> c:\users\de\l\repo\week04\main.py(34)<module>()
-> if __name__ == "__main__":
(Pdb)
> c:\users\de\l\repo\week04\main.py(35)<module>()
-> process_contacts()
(Pdb)
邮件文件生成成功!
--Return--
> c:\users\de\l\repo\week04\main.py(35)<module>()->None
-> process_contacts()
(Pdb)
--Return--
> <string>(1)<module>()->None
(Pdb) s
The program finished and will be restarted
> c:\users\de\l\repo\week04\main.py(1)<module>()
-> def process_contacts():
(Pdb)
```

The image shows a Visual Studio Code editor window and a terminal window. The VS Code window displays a file explorer on the left with a project named 'week04'. The files listed are .gitignore, contacts.txt, emails.txt, environment.yml, LICENSE, main.py, and README.md. The 'environment.yml' file is open in the editor, showing the following content:

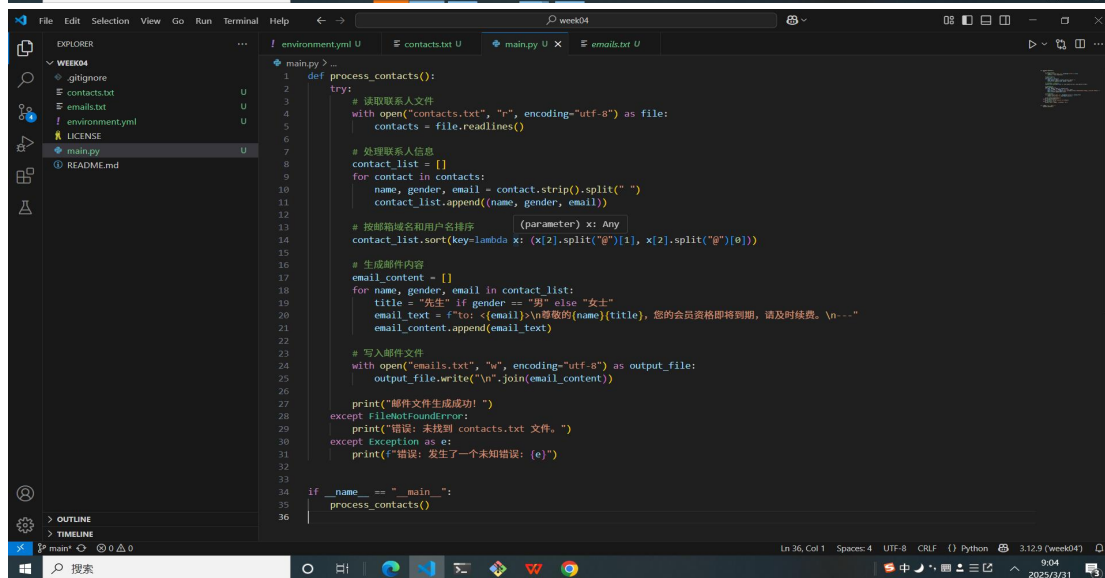
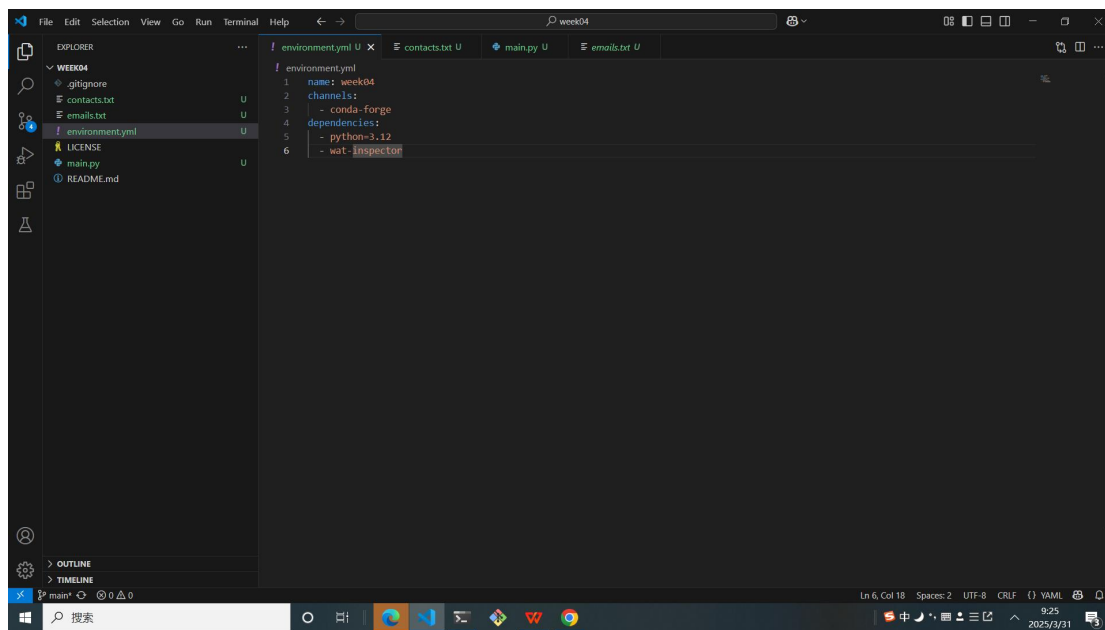
```
1 name: week04
2 channels:
3   - conda-forge
4 dependencies:
5   - python=3.12
6   - wat-inspector
```

The terminal window, titled 'MINGW64/c:/Users/DELL/rep...', shows the following commands and output:

```
# To activate this environment, use
#
# $ conda activate week04
#
# To deactivate an active environment, use
#
# $ conda deactivate

(week04)
DELL@DESKTOP-1SUNFNG MINGW64 ~/repo/week04 (main)
$ cat environment.yml
name: week04
channels:
  - conda-forge
dependencies:
  - python=3.12
  - wat-inspector(week04)
DELL@DESKTOP-1SUNFNG MINGW64 ~/repo/week04 (main)
$ conda env update
Channels:
  - conda-forge
  - https://repo.anaconda.com/pkg/main
  - https://repo.anaconda.com/pkg/r
  - https://repo.anaconda.com/pkg/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

(week04)
DELL@DESKTOP-1SUNFNG MINGW64 ~/repo/week04 (main)
$
```



图片中紫色是保留字不能作为变量名，语句后可以跟表达式，粉色是字符串。缩进代表层级。