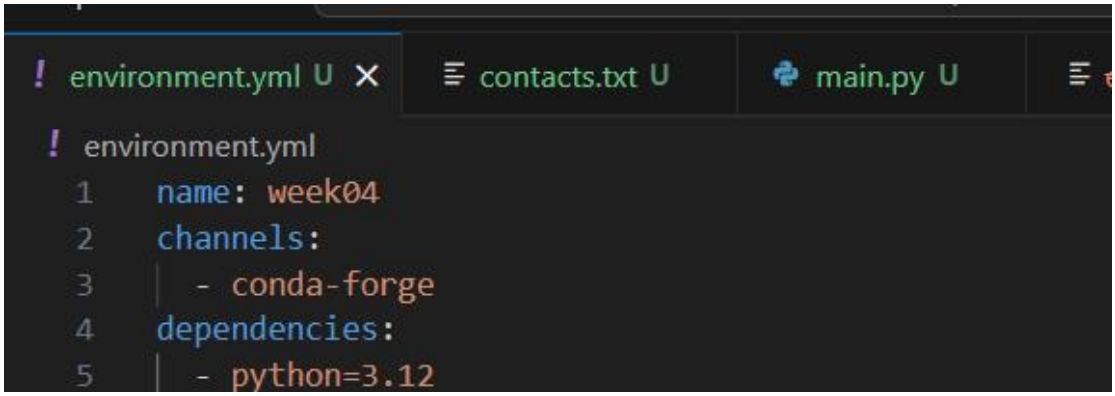
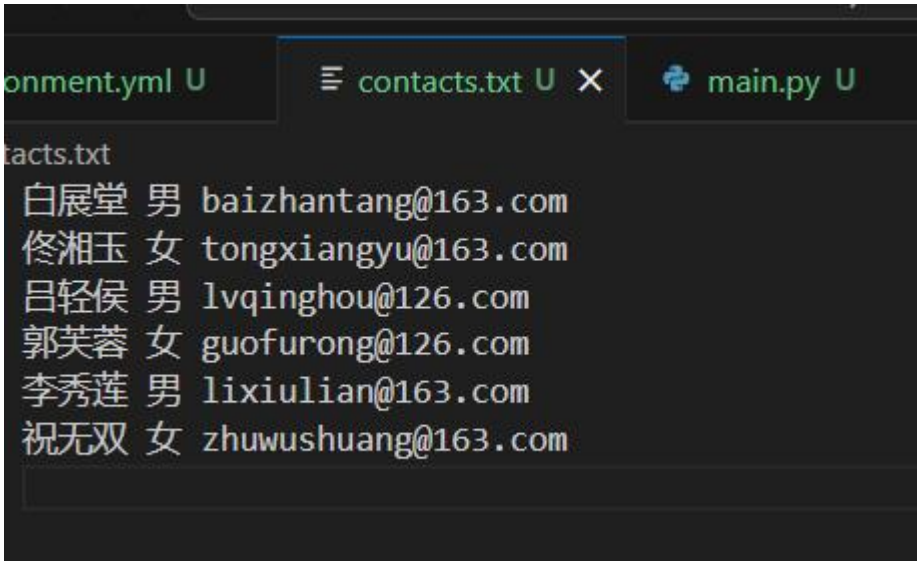
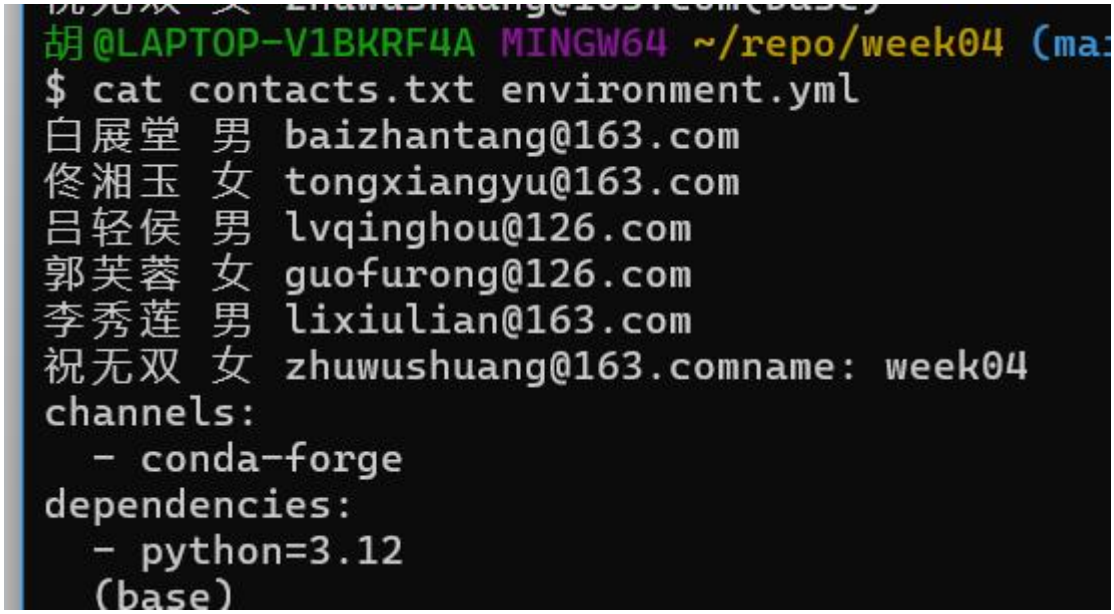
在 vc 里面编辑 env 文件，有 python3.12



创建 contacts.txt 文档



将 contact 文档和 env 文档合并



在豆包里面查询代码

main.py

```python
def read_contacts(file_path):
    contacts = []
    try:
        with open(file_path, 'r', encoding='utf-8') as f
            for line in file:
                name, gender, email = line.strip().split
                contacts.append((name, gender, email))
    except FileNotFoundError:
        print(f"错误: 文件 {file_path} 未找到。")
    except Exception as e:
        print(f"错误: 读取文件时发生未知错误: {e}")
    return contacts


def generate_emails(contacts):
    sorted_contacts = sorted(contacts, key=lambda x: (x[
    emails = []
    for name, gender, email in sorted_contacts:
        title = "先生" if gender == "男" else "女士"
        email_text = f"to: <{email}>\n尊敬的 {name}{title
        emails.append(email_text)
    return emails


def write_emails(emails, output_file):
    try:
        with open(output_file, 'w', encoding='utf-8') as
            for email in emails:
                file.write(email + '\n')
    except Exception as e:
        print(f"错误: 写入文件 {output_file} 时发生未知错误:
```

导出邮件

```
emails.txt
1   to: <guofurong@126.com>
2   尊敬的 郭芙蓉女士，您的会员资格即将到期，请及时续费。
3   ---
4   to: <lvqinghou@126.com>
5   尊敬的 吕轻侯先生，您的会员资格即将到期，请及时续费。
6   ---
7   to: <baizhantang@163.com>
8   尊敬的 白展堂先生，您的会员资格即将到期，请及时续费。
9   ---
10  to: <lixiulian@163.com>
11  尊敬的 李秀莲先生，您的会员资格即将到期，请及时续费。
12  ---
13  to: <tongxiangyu@163.com>
14  尊敬的 佟湘玉女士，您的会员资格即将到期，请及时续费。
15  ---
16  to: <zhuwushuang@163.com>
17  尊敬的 祝无双女士，您的会员资格即将到期，请及时续费。
18  ---
19
```

使用 l、n、ll、p、s 等指令

```
(Pdb) l
  1  -> def read_contacts(file_path):
  2         contacts = []
  3         try:
  4             with open(file_path, "r", encoding="utf-8") as file
  5                 for line in file:
  6                     name, gender, email = line.strip().split()
  7                     contacts.append((name, gender, email))
  8         except FileNotFoundError:
  9             print(f"错误：文件 {file_path} 未找到。")
 10         except Exception as e:
 11             print(f"错误：读取文件时发生未知错误：{e}")
(Pdb) n
> c:\users\胡\repo\week04\main.py(15)<module>()
-> def generate_emails(contacts):
(Pdb) ll
  1     def read_contacts(file_path):
  2         contacts = []
  3         try:
  4             with open(file_path, "r", encoding="utf-8") as file
  5                 for line in file:
  6                     name, gender, email = line.strip().split()
  7                     contacts.append((name, gender, email))
  8         except FileNotFoundError:
  9             print(f"错误：文件 {file_path} 未找到。")
 10         except Exception as e:
 11             print(f"错误：读取文件时发生未知错误：{e}")
```

```
(Pdb) p contacts
[('白展堂', '男', 'baizhantang@163.com'), ('佟湘玉', '女', 'tongxiangyu@163.com'), ('吕轻侯', '男
, ('郭芙蓉', '女', 'guofurong@126.com'), ('李秀莲', '男', 'lixiulian@163.com'), ('祝无双', '女',
(Pdb) p contacts_file
*** NameError: name 'contacts_file' is not defined
(Pdb) p emails
['to: <guofurong@126.com>\n尊敬的 郭芙蓉女士，您的会员资格即将到期，请及时续费。\n---', 'to: <lvq
 吕轻侯先生，您的会员资格即将到期，请及时续费。\n---', 'to: <baizhantang@163.com>\n尊敬的 白展堂先
期，请及时续费。\n---', 'to: <lixiulian@163.com>\n尊敬的 李秀莲先生，您的会员资格即将到期，请及时
gxiangyu@163.com>\n尊敬的 佟湘玉女士，您的会员资格即将到期，请及时续费。\n---', 'to: <zhuwushuang
双女士，您的会员资格即将到期，请及时续费。\n---']
(Pdb) p write_emails
<function write_emails at 0x0000014C6618F560>
(Pdb) p read_contacts
<function read_contacts at 0x0000014C6618F7E0>
(Pdb) s
--Call--
> c:\users\胡\repo\week04\main.py(27)write_emails()
-> def write_emails(emails, output_file):
(Pdb) p contacts
[('白展堂', '男', 'baizhantang@163.com'), ('佟湘玉', '女', 'tongxiangyu@163.com'), ('吕轻侯', '男
```

```
(Pdb) ppcontacts
*** NameError: name 'ppcontacts' is not defined
(Pdb) pp contacts
[('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')]
(Pdb) p type(contacts)
<class 'list'>
(Pdb) p len(contacts)
6
(Pdb) q
(week04)
```

安装 wat

environment.yml

```yaml
name: week04
channels:
  - conda-forge
dependencies:
  - python=3.12
  - wat-imspector
```

```
胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/week04 (main)
$ cat environment.yml
name: week04
channels:
  - conda-forge
dependencies:
  - python=3.12
  - wat-imspector(week04)
胡@LAPTOP-V1BKRF4A MINGW64 ~/repo/week04 (main)
$ conda env update
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): done
Solving environment: failed

PackagesNotFoundError: The following packages are not available from current channels:

  - wat-imspector
```