第四周作业

1.

```
(base) 12460@LAPTOP-TIVTLFCA MINGW64 /d/gitcode
$ git clone https://gitcode.com/AAdjrj/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 | 12.00 KiB/s, done.

(base) 12460@LAPTOP-TIVTLFCA MINGW64 /d/gitcode
$ cd week04

(base) 12460@LAPTOP-TIVTLFCA MINGW64 /d/gitcode/week04 (main)
$ pwd
/d/gitcode/week04

(base) 12460@LAPTOP-TIVTLFCA MINGW64 /d/gitcode/week04 (main)
$ git remote show origin
* remote origin
Fetch URL: https://gitcode.com/AAdjrj/week04.git
Push URL: https://gitcode.com/AAdjrj/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)
```

2.

```
(base) 12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$ ls -l
total 26
-rw-r--r-- 1 12460 197609 203 3月 29 10:38 contacts.txt
-rw-r--r-- 1 12460 197609 76 3月 29 10:32 environment.yml
-rw-r--r-- 1 12460 197609 18805 3月 29 10:18 LICENSE
-rw-r--r-- 1 12460 197609 2239 3月 29 10:18 README.md

(base) 12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/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
郭芙蓉 女 guofurong@126.com
沈无双 女 zhuwushuang@163.com
(base) 12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$
```

- 3. 要求输出是先按邮箱域名排序 (126.com 排在 163.com 之前), 然 后再按邮箱用户名排序 (guofurong 排在 lvqinghou 之前)
- 4. 按照 ai 写代码运行, 但是运行结果需要调试

```
| contacts contact contacts contact cont
```

5. 在按照 conda env create 时发现环境一直创建失败,因此询问豆包后重新换方法在 week04 创建环境

```
(base) 12460@LAPTOP-T:
$ conda env list
# conda environments:
              APTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
base
                     * F:\python\conda
myproject
prj1
prj2
                        F:\python\conda\envs\myproject
F:\python\conda\envs\prj1
                        F:\python\conda\envs\prj2
(base) 12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
Channels:
- conda-forge
- conda-torge
- defaults
- https://repo.anaconda.com/pkgs/main
- https://repo.anaconda.com/pkgs/r
- https://repo.anaconda.com/pkgs/msys2
Platform: win-64
Collecting package metagata (rep data.json): done
Solving environmen : failed
PackagesNotFoundError: The following packages are not available from current channels:
(base) 12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$ conda create -n environment.yml python=3.12 --channel conda-forge
Channels:
  - conda-forge
    defaults
 (base) 12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$ conda env list
   conda environments:
#
#
base
                                    F:\python\conda
                                     F:\python\conda\envs\myproject
myproject
                                     F:\python\conda\envs\prj1
prj1
prj2
                                     F:\python\conda\envs\prj2
week04
                                     F:\python\conda\envs\week04
```



```
12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$ python main.py
邮件通知已生成并保存到 emails.txt 文件中。
(week04)
 L2460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$ ls -l
total 31
-rw-r--r-- 1 12460 197609
                               205 3月 29 10:39 contacts.txt
-rw-r--r-- 1 12460 197609
                              672
                                    3月 29 11:28 emails.txt
-rw-r--r-- 1 12460 197609
                                    3月 29 10:32 environment.yml
                               76
                                    3月 29 10:18 LICENSE
3月 29 10:44 main.py
3月 29 10:18 README.md
 -rw-r--r-- 1 12460 197609 18805
-rw-r--r-- 1 12460 197609
                             1738
-rw-r--r-- 1 12460 197609
                             2239
```

7. 运行查看

```
12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$ ls -l
total 31
-rw-r--r-- 1 12460 197609
-rw-r--r-- 1 12460 197609
                          205
                              3月 29 10:39 contacts.txt
                          672
                              3月 29 11:28 emails.txt
                               3月 29 10:32 environment.yml
-rw-r--r-- 1 12460 197609
                          76
-rw-r--r-- 1 12460 197609 18805
-rw-r--r-- 1 12460 197609 1738
                              3月 29 10:18 LICENSE
                              3月 29 10:44 main.py
3月 29 10:18 README.md
         - 1 12460 197609
-rw-r--r-
                         2239
(week04)
12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$ 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>
尊敬的 祝无双女士,您的会员资格即将到期,请及时续费。
```

8. 运行解释器

```
2460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$ ls -l
total 30
-rw-r--r-- 1 12460 197609
                             205
                                  3月 29 10:39 contacts.txt
-rw-r--r-- 1 12460 197609
                                  3月 29 10:32 environment.yml
                             76
-rw-r--r-- 1 12460 197609 18805 3月 29 10:18 LICENSE
                                      29 10:44 main.py
-rw-r--r-- 1 12460 197609
                                  3月
                            1738
                                  3月 29 10:18 README.md
-rw-r--r-- 1 12460 197609
                            2239
12460@LAPTOP-T1VTLFCA MINGW64 /d/gitcode/week04 (main)
$ python -m pdb main.py
> d:\gitcode\week04\main.py(1)<module>()
-> def read_contacts(file_path):
(Pdb)
```

```
def sort_contacts(contacts):
    def sort_key(contact):
    __, _, email = contact
    username, domain = email.split("@")
    return (domain, username)

return sorted(contacts, key=sort_key)

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

contacts = read_contacts("contacts.txt")
    sorted_contacts = sort_contacts(contacts)
    emails = generate_emails(sorted_contacts)
    write_emails(emails, "emails.txt")

print("邮件通知已生成并保存到 emails.txt 文件中。")

Pdb) p write_emails

function write_emails at 0x00000018EBF9036A0>
                                                                               try:
with open(output_file, "w", encoding="utf-8") as file:
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: {e}")
```