1 代码结构

1.1 协程函数定义

```
from lxml import etree
import asyncio, aiohttp, aiofiles
async def request(url):
      conn=aiohttp.TCPConnector(ssl=False)
      async with aiohttp.ClientSession(connector=conn) as session:
           response = await session.get(url)
            return await response.text()
async def download(url, i):
      async with aiohttp.ClientSession() as session:
           async with session.get(url) as response:
                 with open('week14_网易云歌单封面/'+f'{i+1}'+'.jpg', 'wb') as image:
                       image.write(await response.content.read())
async def write_row(row): #line = ','.join(line) + '\n'
async with aiofiles.open(r'week14_网易云歌单.csv', 'a', encoding = 'utf-8') as f:
           await f.write(row)
async def a_write(response, i):
      html = etree.HTML(response)
      title = html.xpath('//h2[@class="f-ff2 f-brk"]')[0].text
cover = html.xpath('//img[@class="j-img"]/@src')[0]
      await download(cover, i)
     creator_name = html.xpath('//a[@class="s-fc7"]')[0].text
creator_id = re.search('(?<=(?:)id=).*', html.xpath('//a[@class="s-fc7"]/@href')[0]).group()
intro_result = html.xpath('//p[@class="intr f-brk"]')</pre>
      if intro_result == []:
           introduction =
          introduction = intro_result[0].xpath('string(.)')[4:] # 删去'介绍\n'
     num_songs = html.xpath('//span[@id="playlist-track-count"]')[0].text
num_play = html.xpath('//strong[@id="play-count"]')[0].text
num_add = html.xpath('//a[@class="u-btni u-btni-fav "]/i/text()')[0][1:-1]
num_share = html.xpath('//a[@class="u-btni u-btni-share "]/i/text()')[0][1:-1]
num_comment = html.xpath('//span[@id="cnt_comment_count"]/text()')[0]

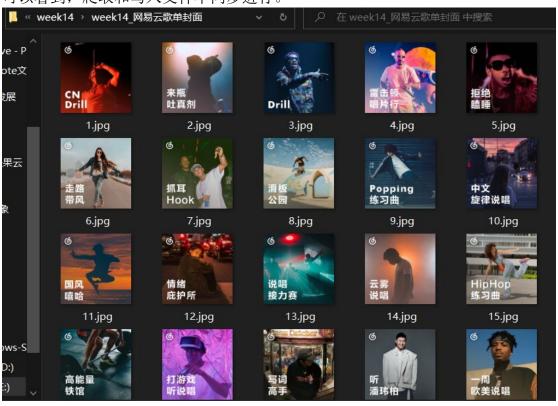
row = [title_cover_creator_name_creator_id_introduction
      row = [title, cover, creator_name, creator_id, introduction,
               num_songs, num_play, num_add, num_share, num_comment]
      # 法1: 逐步添加
      row = ','.join(row) + '\n'
      await write_row(row)
      print(f'>>>- 第{i+1} 个歌单写入成功--V')
```

1.2 主函数

2运行结果

```
E:\北航\课业\大三上\现代程序设计技术\week14>python week14_homework.py
---开始爬取第1个歌单-->>>
---开始爬取第2个歌单-->>>
>>>-第1个歌单写入成功-- \/
---开始爬取第3个歌单-->>>
>>>-第2个歌单写入成功-- \/
---开始爬取第4个歌单写入成功-- \/
---开始爬取第4个歌单写入成功-- \/
---开始爬取第5个歌单写入成功-- \/
---开始爬取第5个歌单-->>>
>>>-第5个歌单写入成功-- \/
---开始爬取第6个歌单-->>>
>>>-第6个歌单写入成功-- \/
---开始爬取第7个歌单-->>>
>>>-第6个歌单写入成功-- \/
---开始爬取第7个歌单-->>>
>>>-第6个歌单写入成功-- \/
---开始爬取第8个歌单-->>>
>>>-第6个歌单写入成功-- \/
---开始爬取第8个歌单-->>>
```

可以看到,爬取和写入文件不同步进行。



,30,12269693,82238,659,163 [走路带风] 用音乐给今天充满电,http://p3.music.126.net/hFMcFqf2BPCxVer_ehx0FA==/109951167600118285.jp 无聊的一天,如坐针毡,深陷996苦海...

按下播放键,一秒带你找回状态!

🧻 week14_网易云歌单.csv - 记事本

,100,1263952,5380,45,18