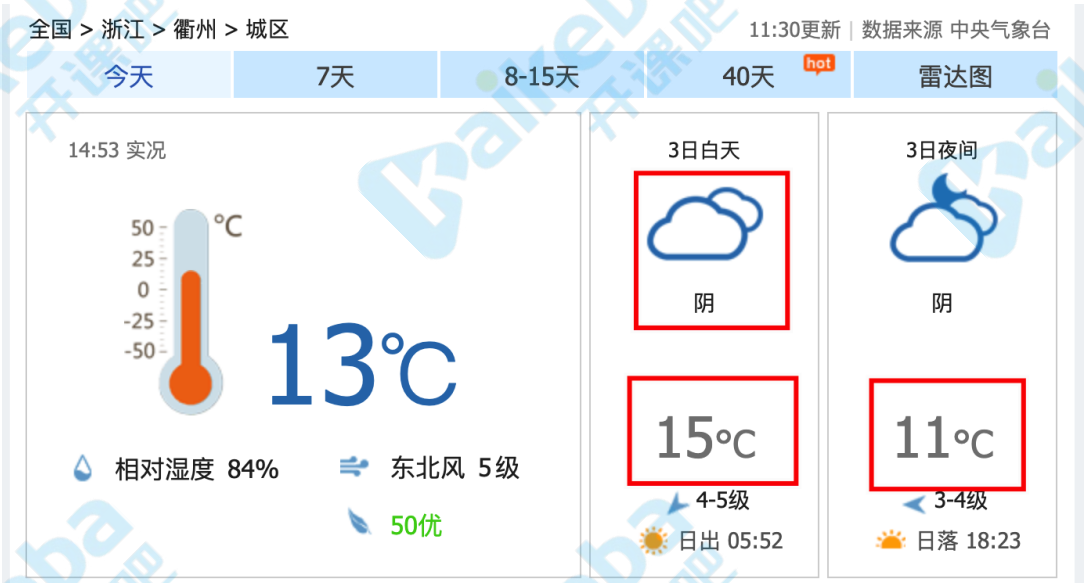
第11课 让爬虫定时向你汇报答案

题目要求：

- 根据已给出的网址爬取衢州的天气，爬取白天、夜间的温度、阴天或晴天数据具体数据位置见下面图片,红色框圈出来的是需要爬取的数据。将爬取到的数据写入到发送邮件模板中并定时每天早上八点，发送天气情况。

使用技术点引导

- requests
- BeautifulSoup
- smtplib
- email
- schedule
- time
- while循环
- 利用函数封装代码（选用）




```python
# 导入模块
import requests
from bs4 import BeautifulSoup
import smtplib
from email.mime.text import MIMEText
from email.header import Header
import schedule
import time
# 输入邮箱发件人、收件人以及邮箱的授权码
account = str(input('请输入发件人邮箱地址：'))
password = str(input('请输入邮箱授权码：'))
```

```
receiver = str(input('请输入收件人邮箱地址：'))
# 建立天气网爬虫，爬取天气信息
def weather_spider():
    # 模拟浏览器：
    headers ={
        'user-agent' :'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/71.0.3578.98 Safari/537.36'
    }
    url ='http://www.weather.com.cn/weather/101211001.shtml'
    # 数据获取：
    res =requests.get(url ,headers=headers)
    res.encoding ='utf-8'
    # 数据解析：
    soup =BeautifulSoup(res.text ,'html.parser')
    # 数据提取：
    tem1= soup.find(class_='tem')
    weather1= soup.find(class_='wea')
    tem =tem1.text
    weather =weather1.text
    print(tem1 ,weather)
    return tem ,weather
# weather_spider()
# #发送邮件的代码
def send_email(tem,weather):
    mailhost='smtp.qq.com'
    qqmail = smtplib.SMTP()
    qqmail.connect(mailhost,25)
    qqmail.login(account,password)
    content= '衢州的天气是：\n'+tem+weather
    message = MIMEText(content, 'plain', 'utf-8')
    subject = '今日天气预报from python'
    message['Subject'] = Header(subject, 'utf-8')
    qqmail.sendmail(account, receiver, message.as_string())
    print ('邮件发送成功')
    qqmail.quit()
#建立任务
def job():
  print('开始一次任务')
  tem,weather = weather_spider()
  # print("发送邮件")
  send_email(tem,weather)
  print('任务完成')
#定时发送
schedule.every().friday.at("14:43").do(job)
while True:
  schedule.run_pending()
  time.sleep(1)
```