python正则表达式和几个模块的使用

```python
"""
re模块

参考博客 https://www.cnblogs.com/guyuyun/p/5839881.html
"""
from collections import *

import re

pattern = re.compile('python') #python被作为了规则
ret = pattern.search('hellp python')
print(ret)
print(ret.group())


#   match方法
ret = re.match('a','abc') # match是从头开始匹配
print(ret.group()) # 匹配不成功抛出异常

# search方法
ret = re.search('python','adladpythonawq')
print(ret.group())

#   findall方法  查找相关的
ret = re.findall('python','sadapython,python is good')
print(ret)

#   collections模块  参考博客 https://www.cnblogs.com/zhizhan/p/5692668.html
#   一共4个方法比较重要
#namedtuple()
mockdata = [('wwj','man','31'),
            ('xly','women','28')
            ]

nd = namedtuple('nd',['name','male','age'])

for m in mockdata:
    m = nd._make(m)
    print(m)


#创建一个双端队列
mydeque=deque(maxlen=10)
mydeque.append(10)
mydeque.append(11)
print(mydeque)
mydeque.appendleft('a')
mydeque.appendleft('b')
print(mydeque)
```

```
mydeque.popleft()
print(mydeque)


#counter  统计字符出现的次数
s = '''A Counter is a dict subclass for counting hashable objects. It is an unordered collection where elements are stored as dictionary keys and their counts are stored as dictionary values. Counts are allowed to be any integer value including zero or negative counts. The Counter class is similar to bags or multisets in other languages.'''.lower()
c = Counter(s)
print (c.most_common(5))


#orderedDict

items = (
    ('a',20),
    ('b',18),
    ('c',15),
    ('d',66)
)

d1 = dict(items)
d2 = OrderedDict(items)
print(d1.items())
print(d2.items())

items1 = [
    ('a',20),
    ('b',18),
    ('c',15),
    ('d',66)
]
#defaultdict
dd = defaultdict(list)
for k,v in items1:
    dd[k].append(v)
print(dd.items())
```

```
"""
time 模块
random 模块
os 模块
sys 模块
"""
import time
import random
import os
import  sys

#  返回1970年至今的时间戳，浮点秒数
print(time.time())

t = time.localtime()
print(t.tm_year)
```

```
17
18 t1 = time.strftime('星期%w',time.localtime())
19 print(t1)
20
21 #time.sleep(2)
22 print(time.localtime())
23
24
25 for i in range(10):
26     print(i)
27  #    time.sleep(2)
28
29 """
30 random模块
31 """
32 print(random.random())
33
34 #在指定范围调整
35 print(random.uniform(1,99))
36
37
38
39
40
41 """
42 os模块
43 """
44 ret  = os.getcwd()
45 print(ret)
46
47 print(os.listdir(ret))
48
49 """
50 os.path.split():返回一个路径的目录名和文件名
51 os.path.isfile()和os.path.isdir()分别检验给出的路径是一个目录还是文件
52 os.path.existe():检验给出的路径是否真的存在
53 """
54
55
56 """
57 sys模块
58 https://blog.csdn.net/u013044310/article/details/79499677
59 """
60 sys.exit(0)
61 print(sys.platform)
62
63
```