**Python基础 第六天作业**

1. **字典课堂作业**

把防火墙状态信息表存为字典!

注意:一定要考虑很多很多行的可能性

asa\_conn = "TCP Student 192.168.189.167:32806 Teacher 137.78.5.128:65247, idle 0:00:00, bytes 74, flags UIO\n TCP Student 192.168.189.167:80 Teacher 137.78.5.128:65233, idle 0:00:03, bytes 334516, flags UIO"

打印结果如下:

文本

描述已自动生成

import re  
  
asa\_conn = "TCP Student 192.168.189.167:32806 Teacher 137.78.5.128:65247, idle 0:00:00, bytes 74, flags UIO\n " \  
 "TCP Student 192.168.189.167:80 Teacher 137.78.5.128:65233, idle 0:00:03, bytes 334516, flags UIO"  
  
asa\_dict = {}  
  
for conn in asa\_conn.split('\n'):  
 re\_result = re.search(r'([A-Z]+\s)([a-zA-Z]+\s)(\d{1,3}.\d{1,3}.\d{1,3}.\d{1,3}):(\d{1,5})(\s[A-Za-z]+\s)'  
 r'(\d{1,3}.\d{1,3}.\d{1,3}.\d{1,3}):(\d{1,5})(,\s\w+\s\d+:\d+:\d+,\s\w+\s)(\d+)(,\s\w+\s)'  
 r'(\w+)', conn)  
  
 asa\_dict[(re\_result.group(3), re\_result.group(4), re\_result.group(6), re\_result.group(7))] = (re\_result.group(9),  
 re\_result.group(11))  
print('打印分析后的字典! \n')  
print(asa\_dict)  
  
src = 'src'  
src\_ip = 'src\_ip'  
dst = 'dst'  
dst\_ip = 'dst\_ip'  
bytes\_name = 'bytes'  
flags = 'flags'  
format\_str1 = '{:^8}:{:^15}|{:^8}:{:^15}|{:^10}:{:^15}|{:^10}:{:^15}'  
format\_str2 = '{:^8}:{:^15}|{:^8}:{:^15}'  
  
print('\n格式化打印输出\n')  
  
for key, value in asa\_dict.items():  
 print(format\_str1.format(src, key[0], src\_ip, key[1], dst, key[2], dst\_ip, key[3]))  
 print(format\_str2.format(bytes\_name, value[0], flags, value[1]))  
 print('==================================================================================================')

图片包含 日程表

描述已自动生成

1. **接口排序**

需要排序的列表:  
port\_list = ['eth 1/101/1/42','eth 1/101/1/26','eth 1/101/1/23','eth 1/101/1/7','eth 1/101/2/46','eth 1/101/1/34','eth 1/101/1/18','eth 1/101/1/13','eth 1/101/1/32','eth 1/101/1/25','eth 1/101/1/45','eth 1/101/2/8']

需要排序的结果:  
['eth 1/101/1/7', 'eth 1/101/1/13', 'eth 1/101/1/18', 'eth 1/101/1/23', 'eth 1/101/1/25', 'eth 1/101/1/26', 'eth 1/101/1/32', 'eth 1/101/1/34', 'eth 1/101/1/42', 'eth 1/101/1/45', 'eth 1/101/2/8’,'eth 1/101/2/46’]

作业提示 Google搜索"python sort lambda"

**注意 : 一句话就能解决**

port\_list = ['eth 1/101/1/42', 'eth 1/101/1/26', 'eth 1/101/1/23', 'eth 1/101/1/7', 'eth 1/101/2/46', 'eth 1/101/1/34',  
 'eth 1/101/1/18', 'eth 1/101/1/13', 'eth 1/101/1/32', 'eth 1/101/1/25', 'eth 1/101/1/45', 'eth 1/101/2/8']  
  
sorted\_result = sorted(port\_list, key=lambda x: tuple(map(int, x.split()[1].split('/'))))  
  
print(sorted\_result)

图形用户界面, 文本

描述已自动生成