一、测试结果:

1、server 端

```
Microsoft Windows [版本 10.0.19042.1052]
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D:\资料\作业\计算机网络\multiThreadWebServer>python server.py

{_MainThread MainThread, started 2444}>
waitting ......
deal with connection ....

(Thread(Thread-1, started 10740)×_MainThread(MainThread, started 2444)>
waitting ......

(Thread(Thread-2, started 248)×_MainThread(MainThread, started 2444)>
我很好waitting ......

close socket..

deal with connection ...

close socket..

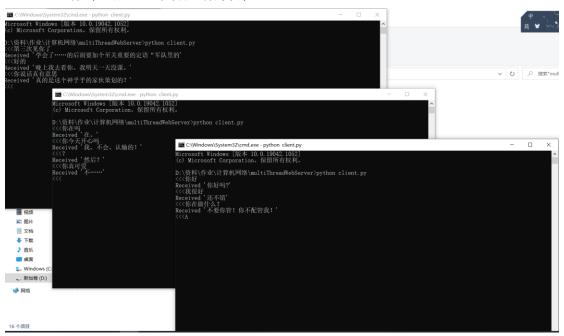
deal with connection ...

(Thread(Thread-3, started 13372)><_MainThread(MainThread, started 2444)>

你在做什么? waitting ......

close socket..
```

2、client端(运行了3个客户端为例)



- 二、发现问题及解决
- 1、若是在运行过程中出现此错误,是因为安装了最新版的 chatterbot 的原因,请参考此连接进行修复

参考连接: https://stackoverflow.com/questions/66087475/chatterbot-error-oserror-e941-cant-find-model-en

```
Traceback (most recent call last):
       File "c:/users/USER/desktop/bot.py", line 77, in <module>
               chatbot = ChatBot('Ron Obvious')
       File "C:\Users\USER\AppData\Local\Programs\Python\Python37\lib\site-packages\chatterbot\c
              self.storage = utils.initialize_class(storage_adapter, **kwargs)
       File "C:\Users\USER\AppData\Local\Programs\Python\Python37\lib\site-packages\chatterbot\L
             return Class(*args, **kwargs)
       File "C:\Users\USER\AppData\Local\Programs\Python\Python37\lib\site-packages\chatterbot\s
              super().__init__(**kwargs)
       File "C:\USER\AppData\Local\Programs\Python\Python37\Lib\site-packages\chatterbot\site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-packages\Chatterbot\Site-package
                 'tagger_language', languages.ENG
       File "C:\Users\USER\AppData\Local\Programs\Python\Python37\lib\site-packages\chatterbot\t
               self.nlp = spacy.load(self.language.ISO_639_1.lower())
       File "C:\USER\AppData\Local\Programs\Python\Python37\Lib\site-packages\spacy\width="init-packages" and the packages of the p
              return util.load_model(name, disable=disable, exclude=exclude, config=config)
       File "C:\Users\USER\AppData\Local\Programs\Python\Python37\lib\site-packages\spacy\util.r
              raise IOError(Errors.E941.format(name=name, full=OLD_MODEL_SHORTCUTS[name]))
OSError: [E941] Can't find model 'en'. It looks like you're trying to load a model from a s
nlp = spacy.load("en_core_web_sm")
For more details on the available models, see the models directory: https://spacy.io/models
```