#import socket module

from socket import \*

serverSocket= socket(AF\_INET, SOCK\_STREAM)#creates socket

#Prepare a sever socket

#Fill in start

serverPort = 7000 #sets port

serverSocket.bind(('172.19.150.190', serverPort)) #associates socket with this port

serverSocket.listen(1) #tells socket to listen for requests

#Fill in end

while True:

#Establish the connection

Print("Ready to serve…")

connectionSocket, addr = serverSocket.accept() #creates a socket specifically for this client

try:

message = connectionSocket.recv(1024) #receives message from client

print("message")

filename = message.split()[1]

f = open(filename[1:]) #opens file and reads the contents

outputdata =f.read()

#Send one HTTP header line into socket

#Fill in start

connectionSocket.send("\nHTTP/1.x 200 OK\n") #sends a 200 OK header line

#Fill in end

#Send the content of the requested file to the client

for i in range(0, len(outputdata)):

connectionSocket.send(outputdata[i]) #outputs all of the data in the file

connectionSocket.close() #closes the socket for this client

print("File Recieved")

except IOError:

#Sendresponse message for file not found

#Fill in start

connectionSocket.send("\n404 File Not Found\n") #sends an error message to be printed on the page

#Fill in end

#Close client socket

#Fill in start

connectionSocket.close() #closes the socket for the client

#Fill in end

serverSocket.close() #closes the server socket

sys.exit()#Terminate the program after sending the corresponding data

This project was fairly straightforward. Most of the code was given, and most was easy to derive knowing the TCP server code. This code creates a socket, defines the port number, associates the port with this socket, and tells the server to listen for incoming requests.

这个项目相当简单。 大多数代码都是给出的，并且大多数代码都很容易知道TCP服务器代码。 此代码创建一个套接字，定义端口号，将端口与此套接字关联，并告诉服务器侦听传入的请求。

然后，在while中，它会打印一条声明已准备好的声明。 然后，服务器为此特定客户端创建另一个套接字。 然后，它尝试接收请求，打开文件，并从文件中读取数据。 我不得不查找http标题行以了解标题行的格式，并发现我只需要按照标题行（200 OK）使用HTTP / 1.x，然后我添加了一行来获取connectionSocket 发送200 OK标题行以声明请求成功。 然后发送outputdata并关闭connectionSocket。

如果尝试不起作用，代码将运行异常，因为存在错误。 connectionSocket打印404 NOT FOUND消息，该消息打印到页面，然后套接字关闭。

这将通过运行服务器进行测试，转到ip地址127.0.0.1，这是用于引用正在使用的计算机的IP地址，转到端口7000并查找我在记事本++中创建的简单html文件 叫做test.html。 此路径在浏览器中将如下所示：http：//127.0.0.1：7000 / test.html。 这是我的测试视频