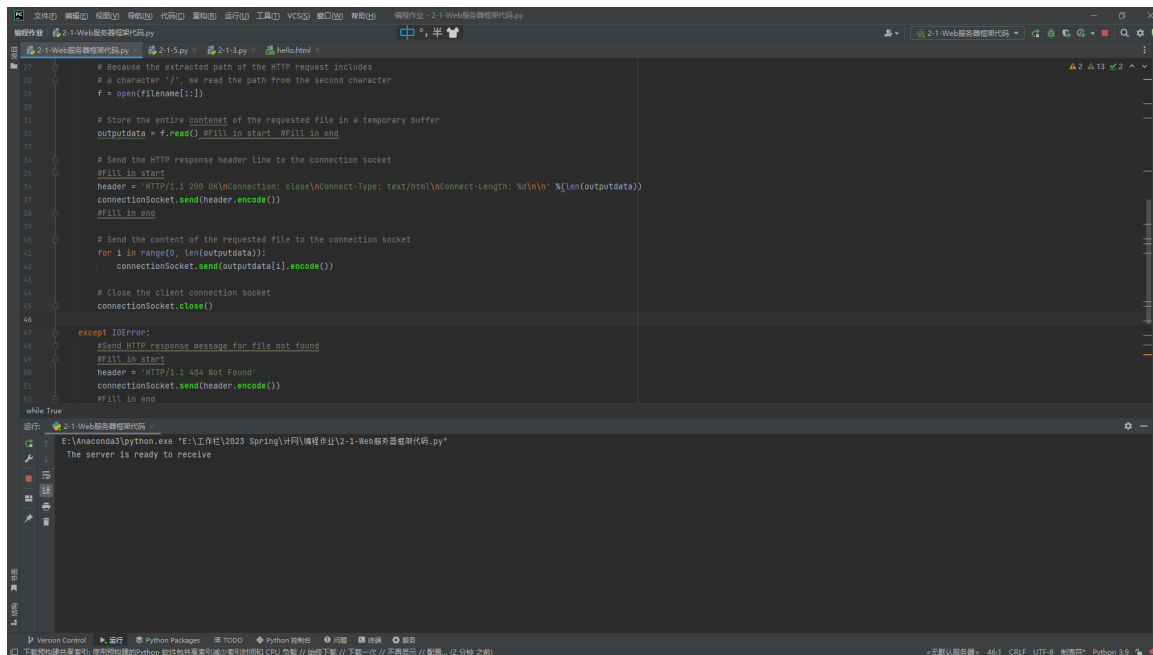


计算机网络

套接字编程作业 2-1: Web 服务器

1 Task 1 and Task 2

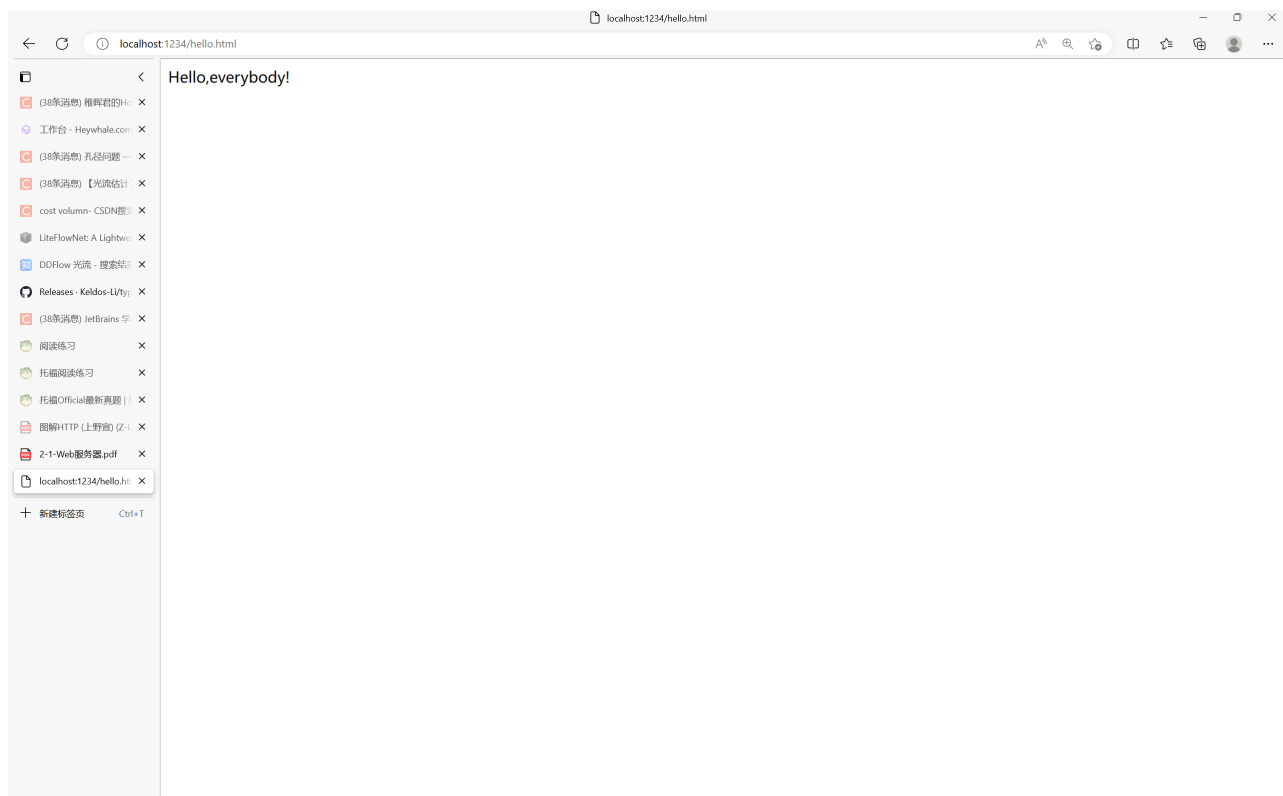
- python版本: 3.9
- 浏览器类型: Edge
- web服务器运行窗口截图



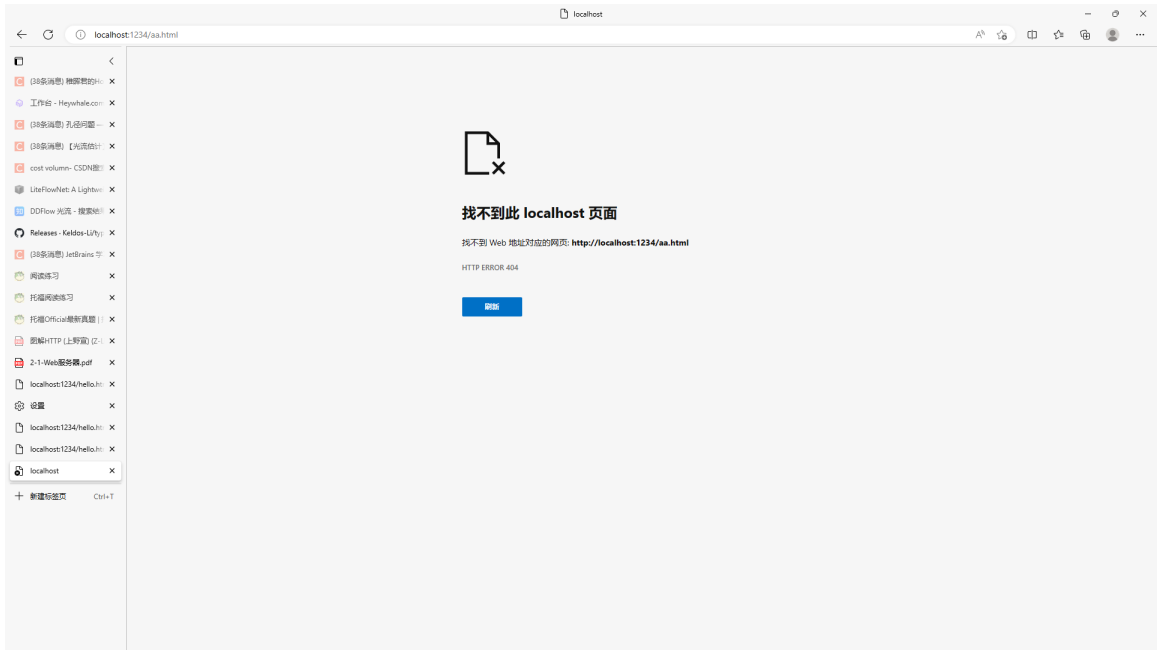
```
27 # Because the extracted path of the HTTP request includes
28 # a character '/', we read the path from the second character
29 f = open(filename[1:])
30
31 # Store the entire content of the requested file in a temporary buffer
32 outputdata = f.read() #fill in start #fill in end
33
34 # Send the HTTP response header line to the connection socket
35 #fill in start
36 header = "HTTP/1.1 200 OK\r\nConnection: close\r\nContent-Type: text/html\r\nContent-Length: %d\r\n" % (len(outputdata))
37 connectionSocket.send(header.encode())
38 #fill in end
39
40 # Send the content of the requested file to the connection socket
41 for i in range(0, len(outputdata)):
42     connectionSocket.send(outputdata[i].encode())
43
44 # Close the client connection socket
45 connectionSocket.close()
46
47 except IOError:
48     #Send HTTP response message for file not found
49     #fill in start
50     header = "HTTP/1.1 404 Not Found"
51     connectionSocket.send(header.encode())
52     #fill in end
53
54 while True
```

运行: 2-1-Web服务器编程代码
E:\Anaconda3\python.exe "E:\工作区\2023 Spring\计算机网络\作业\2-1-Web服务器编程代码.py"
The server is ready to receive

- 请求存在的文件截图

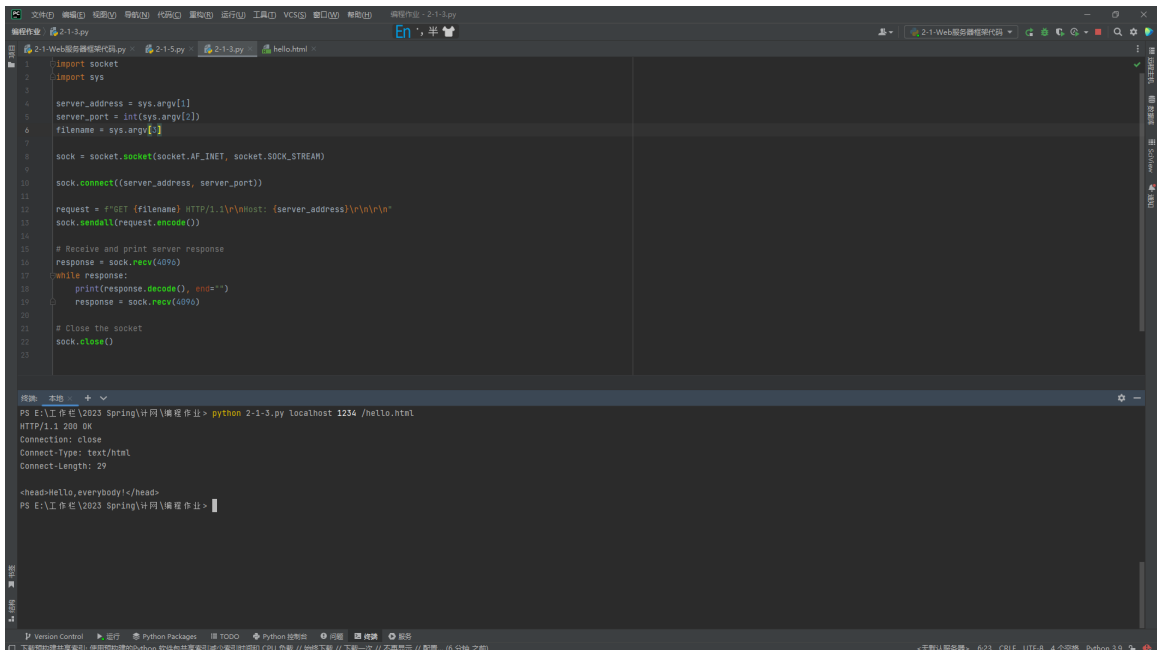


- 请求不存在的浏览器截图

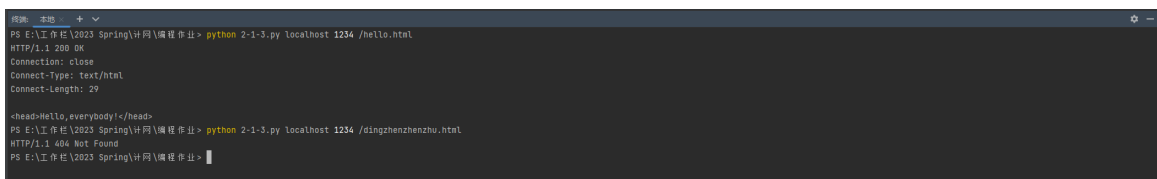


2 Task 3 and Task 4

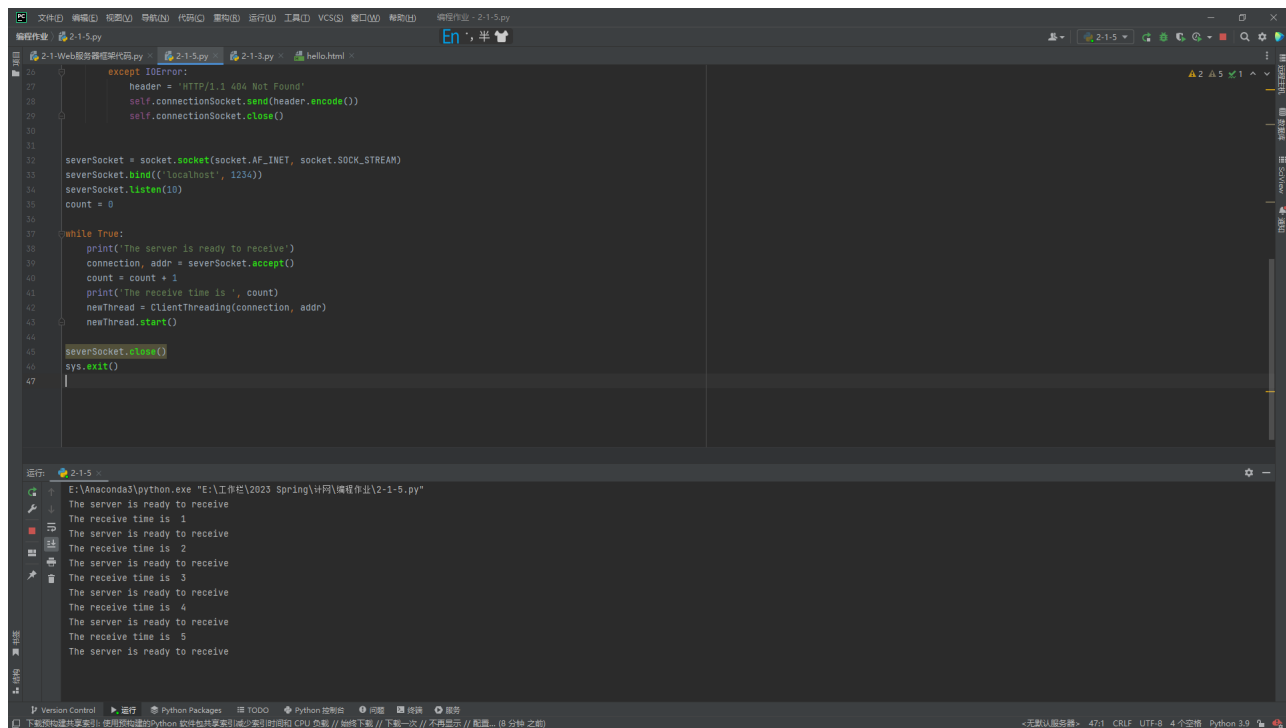
- 请求存在的文件



- 请求不存在的文件



3 Task 5



The screenshot shows a Python IDE with a code editor and a console window. The code editor displays a Python script for a web server. The console window shows the output of the script, which is a series of messages indicating the server is ready to receive and the receive time is 1 through 5.

```
26         except IOError:
27             header = 'HTTP/1.1 404 Not Found'
28             self.connectionSocket.send(header.encode())
29             self.connectionSocket.close()
30
31
32 severSocket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
33 severSocket.bind(('localhost', 1234))
34 severSocket.listen(10)
35 count = 0
36
37 while True:
38     print('The server is ready to receive')
39     connection, addr = severSocket.accept()
40     count = count + 1
41     print('The receive time is ', count)
42     newThread = ClientThreading(connection, addr)
43     newThread.start()
44
45 severSocket.close()
46 sys.exit()
47
```

运行 2-1-5

```
E:\Anaconda3\python.exe "E:\工作区\2023 Spring\计算机网络\编程作业\2-1-5.py"
The server is ready to receive
The receive time is 1
The server is ready to receive
The receive time is 2
The server is ready to receive
The receive time is 3
The server is ready to receive
The receive time is 4
The server is ready to receive
The receive time is 5
The server is ready to receive
```

Version Control 运行 Python Packages 任务 TODO Python 控制台 问题 调试 搜索

下载和构建共享资源：使用预构建的Python 软件包共享资源(减少安装时的CPU 负载) // 始终下载 // 下载一次 // 不再显示 // 配置... (每 分钟 之前)

<无默认编辑器> 47/1 CRLF UTF-8 4 个空格 Python 3.8