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Socket Programming
Assignment2 Web Server

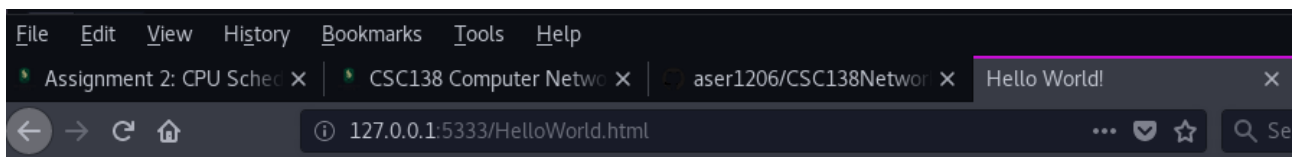
Code

```
TCPServer.py
1  from socket import *
2  import sys
3
4  serverSocket = socket(AF_INET, SOCK_STREAM)
5
6  #prepare a sever socket
7  serverPort = 5333
8  serverSocket.bind(("", serverPort))
9
10 # Listen to at most 1 connection at a time
11 serverSocket.listen(1)
12
13 while True:
14     #Establish the connection
15     print 'Server running and ready to recieve...'
16     connectionSocket, addr = serverSocket.accept()
17
18     try:
19         message = connectionSocket.recv(1024)
20         filename = message.split()[1]
21         f = open(filename[1:])
22         outputdata = f.read()
23         # Send one HTTP header line into the socket
24         #http://127.0.0.1:5333/HelloWorld.html
25         connectionSocket.send("HTTP/1.1 200 OK\r\n\r\n")
26
27         # Send the content of the requested file to the connection socket
28         for i in range(0, len(outputdata)):
29             connectionSocket.send(outputdata[i])
30         connectionSocket.send("\r\n")
31
32         connectionSocket.close()
33     except IOError:
34         # Send HTTP response message for file not found
35         connectionSocket.send("HTTP/1.1 404 Not Found\r\n\r\n")
36
37         connectionSocket.send("<h1>404 Not Found</h1>\r\n")
38         # Close the client socket
39         connectionSocket.close()
40
41 serverSocket.close()
42 sys.exit()
43
```

Running the code

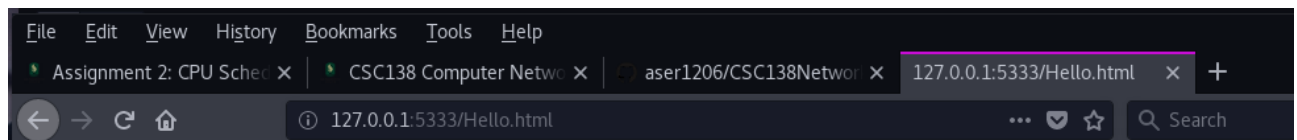
```
python /home/asr1206/CSCClasses/CSC138/Code/Assignment2
File Edit View Search Terminal Help
rename Code/{ => Assignment1}/UDPServer.py (100%)
create mode 100644 Code/Assignment2/HelloWorld.html
create mode 100644 Code/Assignment2/TCPServer.py
create mode 100644 WireSharkGetAndOk.pdf
create mode 100644 WiresharkLab1.odt
create mode 100644 WiresharkLab1.pdf
create mode 100644 socket 2.pdf
~/C/C/Code > master > git push
Counting objects: 12, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (11/11), done.
Writing objects: 100% (12/12), 8.34 MiB | 725.00 KiB/s, done.
Total 12 (delta 0), reused 0 (delta 0)
To github.com:asr1206/CSC138Network.git
35f2585..ced6e09 master -> master
~/C/C/Code > master > ls
Assignment1/ Assignment2/
~/C/C/Code > master > cd Assignment2/
~/C/C/C/Assignment2 > master > ls
HelloWorld.html TCPServer.py
~/C/C/C/Assignment2 > master > python TCPServer.py
Server running and ready to receive...
```

Content of HelloWorld



Congrats, you have made it!

Page not found



404 Not Found

