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CMPE148

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28 March 2021

**Lab2**

**Code:**

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# import socket module

from socket import \*

import sys # In order to terminate the program

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

# Prepare a sever socket

# Fill in start

serverPort = 4000 # port number

serverSocket.bind(('', serverPort))

serverSocket.listen(1)

# Fill in end

while True:

print('Ready to serve...')

connectionSocket, addr = serverSocket.accept()

try:

message = connectionSocket.recv(1024)

ﬁlename = message.split()[1]

f = open(ﬁlename[1:])

outputdata = f.read() # read ontent of file

# Fill in start

connectionSocket.sendall('HTTP/1.1 200 OK\r\n\r\n'.encode()) # Send a HTTP 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].encode())

connectionSocket.send("\r\n".encode())

connectionSocket.close()

except IOError:

# Send response message for file not found

# Fill in start

connectionSocket.sendall(

b'HTTP/1.1 404 Not Found\r\nContent-Type: text/html\r\n\r\n<doctype html><html><body><h1>404 Not Found&#9785<h1></body></html>')

# Fill in end

serverSocket.close()

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

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**Screenshots:**

