Computer Networks Assignment 2 Net Id – sst390

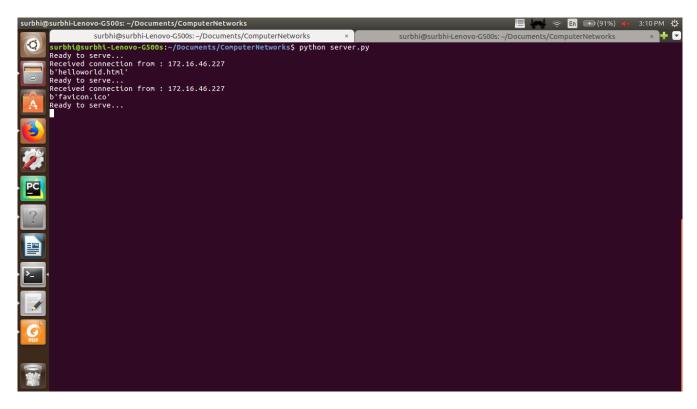
Socket Programming Assignment 1: Web Server

Below is the sample code of Socket Programming using the skeleton code provided.

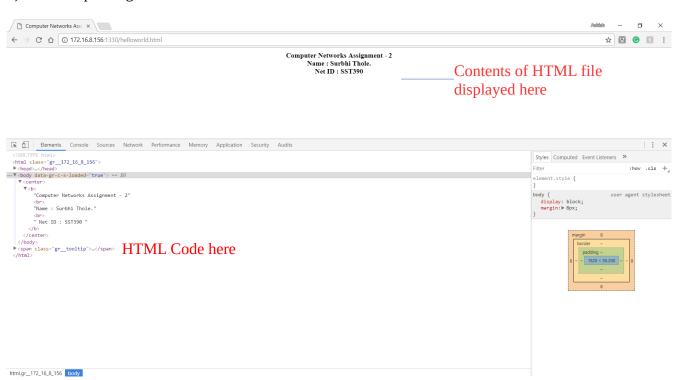
```
#import socket module
from socket import *
serverSocket = socket(AF INET, SOCK STREAM)
#prepare a socket
serverSocket.bind(('0.0.0.0', 1330))
serverSocket.listen(1)
while True:
#Establish the connection
       print ('Ready to serve...')
       connectionSocket, addr = serverSocket.accept()
       try:
              print ("Received connection from : " + str(addr[0]))
              message = connectionSocket.recv(1024)
                                                            #####
              filename = message.split()[1]
              print (filename[1:])
              f = open(filename[1:])
              outputdata = f.read()
              f.close()
#Send one HTTP header line into socket
              connectionSocket.send(b'HTTP/1.1 200 OK\r\n\r\n')
#Send the content of the requested file to the client
              for i in range(0, len(outputdata)):
                      connectionSocket.send(outputdata[i].encode())
              connectionSocket.close()
       except IOError:
#Send response message for file not found
              connectionSocket.send(b'HTTP/1.0 404 Page Not Found\r\n\r\n')
              connectionSocket.send(b'File ' + filename[1:] + b' Not found!!')
              connectionSocket.close()
#Close client socket
              #connectionSocket.close()
serverSocket.close()
```

Output is as follows:

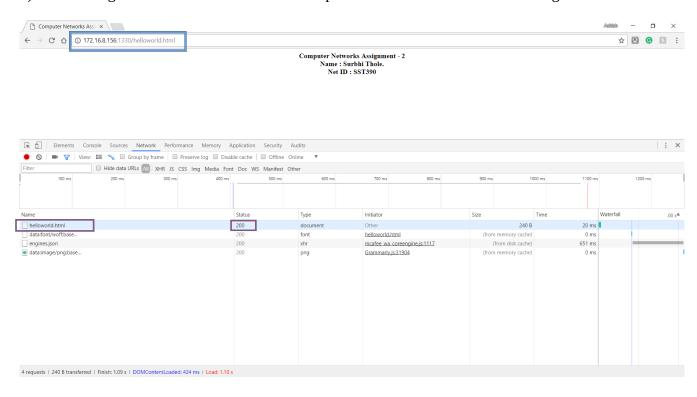
1) When the code is executed, the server waiting for client call:



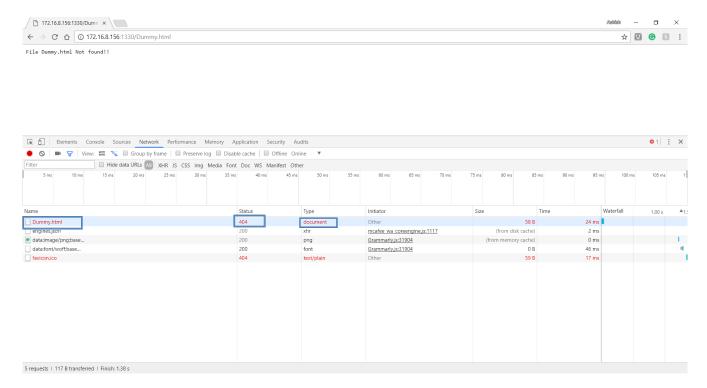
2) Client requesting for HTML file:



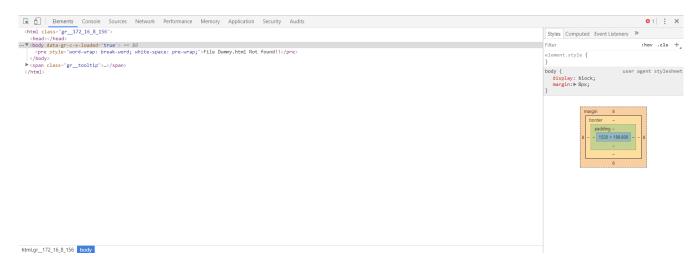
3) Below Image shows the "HTTP 200 OK" response and the file name that is being executed:



- 4) HTTP "404 Page not found error" Message:
- Consist of dummy filename which was requested by client.
- 404 Page Not found Error Message.







5) IP address of the HOST from which the client call was made: