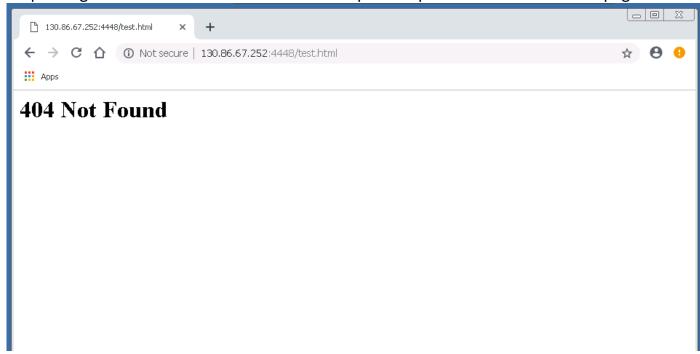
Saturday, March 9, 2019 5:23 PM

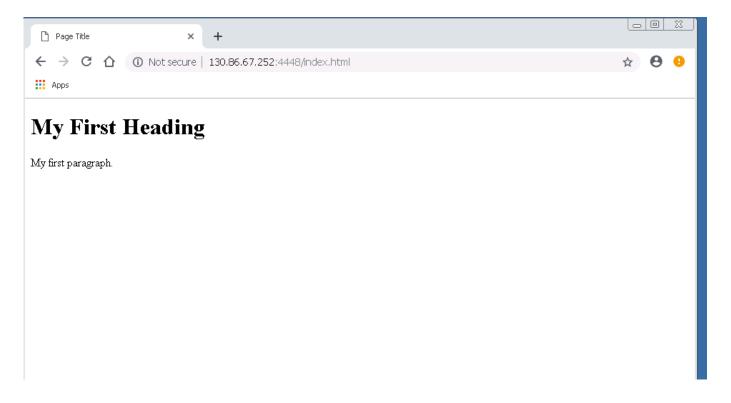
Requesting a test.html which does not exists. Expect output is the 404 Not Found page.



Server program showing client's request is test.html.

```
athena.ecs.csus.edu - PuTT
Ready to serve...
Got request...
('Connected with: ', ('130.86.67.235', 53106))
GET /test.html HTTP/1.1
Host: 130.86.67.252:4448
Connection: keep-alive
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Ge
cko) Chrome/72.0.3626.121 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/
;q=0.8
Accept-Encoding: gzip, deflate
Accept-Language: en-US, en; q=0.9
('File name is: ', '/test.html')
Connection with client has ended
Ready to serve...
```

Requesting the file index.html which does exist in current directory.



Server program shows client's request is index.html

```
athena.ecs.csus.edu - PuTTY
[our@athena:28]> python server.py
('hostname is:', 'athena.ecs.csus.edu')
('host ip is:', '130.86.67.252')
('host port is', 4448)
Ready to serve...
Got request...
GET /index.html HTTP/1.1
Host: 130.86.67.252:4448
Connection: keep-alive
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Ge
cko) Chrome/72.0.3626.121 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*
; q=0.8
Accept-Encoding: gzip, deflate
Accept-Language: en-US, en; q=0.9
('File name is: ', '/index.html')
Connection with client has ended
Ready to serve...
```

Source code of server in python.

```
from socket import *
     import time
     serverSocket = socket(AF_INET, SOCK_STREAM)
     serverPort = 4448
     serverSocket.bind(("", serverPort))
     serverSocket.listen(1)
11
     print ('hostname is:' , gethostname())
     print ('host ip is:' , gethostbyname(gethostname()))
12
     print ('host port is' , serverPort)
     #always on server to listen for incoming requests
17
         print ('Ready to serve...')
         connectionSocket, addr = serverSocket.accept()
         message = connectionSocket.recv(1024)
         print ('Got request...')
24
         print ('Connected with: ',addr)
         print ('\n')
         print (message)
26
         print ("\n")
             filename = message.split()[1]
             print ("File name is: " , filename)
             print ('\n')
             f = open(filename[1:])
             outputdata = f.read()
34
             connectionSocket.send("HTTP/1.1 200 OK\r\n\r\n")
             for i in range(0, len(outputdata)):
                 connectionSocket.send(outputdata[i])
             connectionSocket.send('\r\n')
             connectionSocket.close()
             print ('Connection with client has ended')
         except IOError:
             print ('IOError')
             connectionSocket.send('HTTP/1.1 404 Not Found\r\n\r\n')
             connectionSocket.send('<html><body><h1>404 Not Found</h1></body></html>\r\n')
             connectionSocket.close()
             print ('Connection with client has ended')
     serverSocket.close()
```