

First test: "python myclient.py www.google.com 80 GET /"

I believe this test is a success because it retrieves a "200 OK" response and an entire HTML document.

```
Terminal
jared@jp-Linux: ~/Homework/data_comm/pg1
jared:pg1$
jared:pg1$ clear

jared:pg1$ python myclient.py www.google.com 80 GET / | more

Establishing connection...
Sending request GET / HTTP/1.0

Response received
Closing the connection...

**Reponse**

HTTP/1.0 200 OK
Date: Fri, 20 Nov 2015 07:06:36 GMT
Expires: -1
Cache-Control: private, max-age=0
Content-Type: text/html; charset=ISO-8859-1
P3P: CP="This is not a P3P policy! See http://www.google.com/support/accounts/bin/answer.py?hl=en&answer=151657 for more info."
Server: gws
X-XSS-Protection: 1; mode=block
X-Frame-Options: SAMEORIGIN
Set-Cookie: PREF=ID=1111111111111111:FF=0:TM=1448003196:LM=1448003196:V=1:S=9xqmxHNL0humaDA1; expires=Thu, 31-Dec-2015 16:02:17 GMT; path=/; domain=.google.com
Set-Cookie: NID=73=OwvkLOSSQddeXD6x0tXiy3TQcRp2xh6eGr50B0KhP935Sw7aeniAGav23lcc0hKOK-cSpjQV_V70xRaCUhN-Z1Q_0LFfnH4MHfY6jvtrs-j-F_R5RTWmtFe_pEhpSC45h2LLMG_1hUKnYIjRg-lLwlz0RoMG5xwVMEML1GU187cLZ1aEVp1VxRz83XkGA70FQ; expires=Sat, 21-May-2016 07:06:36 GMT; path=/; domain=.google.com; HttpOnly
Accept-Ranges: none
Vary: Accept-Encoding

<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en"><head><meta content="Search the world's information, including webpages, images, videos and more. Google has many special features to help you find exactly what you're looking for." name="description"><meta content="noodp" name="robots"><meta content="/images/branding/googlelog/1x/googlelog_standard_color_128dp.png" itemprop="image"><title>Google</title><script>(function(){window.google={kEI:'fM20Vo2_D8uMmQHf0LqQdg',kEIP:'3700323,4029815,4031109,4032677,4033307,4033344,4036527,4038012,4039268,4040319,4041816,4041837,4042785,4042793,4043255,4043457,4043458,4043492,4044606,4044954,4045841,4046304,4046400,4047318,4047768,4048007,4048011,4048347,4048595,4048854,4048909,4049201,4049541,4049605,4049619,4050268,4050738,4050751,4050827,4050891,4050908,4050915,8,
```

```
Second test: "python myclient.py 127.0.1.1 8888 GET /"
              AND
              "python myserver.py 8888
```

This test is suppose to send a request to the server and return "Hello World" to the client.

```
Terminal
jared@jp-Linux: ~/Homework/data_comm/pg1
jared:pg1$ python myclient.py 127.0.1.1 8888 GET /
Establishing connection...
Sending request GET / HTTP/1.0

Response received
Closing the connection...

**Reponse**

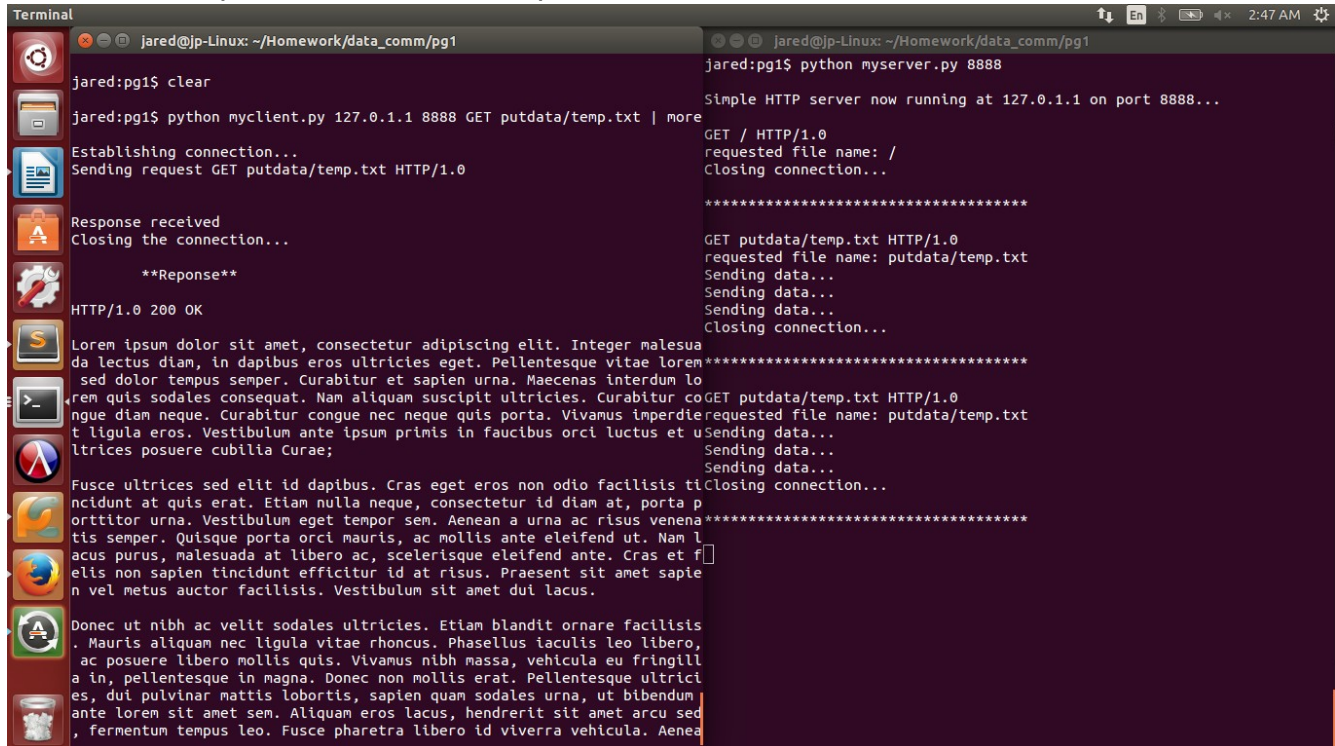
HTTP/1.0 200 OK

Hello World!

*****
jared:pg1$
```

Third test: "python myclient.py 127.0.1.1 8888 GET putdata/temp.txt"
AND
"python myserver.py 8888

This test proves the path resolution functions correctly and the server can process a GET request and send a file to the client



The screenshot shows a terminal window with two panes. The left pane shows the client's actions: clearing the terminal, running the client script with a GET request for 'putdata/temp.txt', and displaying the received response which includes a 200 OK status and a large block of Lorem Ipsum text. The right pane shows the server's actions: running the server script on port 8888, displaying the message 'Simple HTTP server now running at 127.0.1.1 on port 8888...', and processing the request by sending the file 'putdata/temp.txt' to the client.

```
Terminal
jared@jp-Linux: ~/Homework/data_comm/pg1
jared:pg1$ clear
jared:pg1$ python myclient.py 127.0.1.1 8888 GET putdata/temp.txt | more
Establishing connection...
Sending request GET putdata/temp.txt HTTP/1.0

Response received
Closing the connection...

**Reponse**

HTTP/1.0 200 OK
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer malesua
da lectus diam, in dapibus eros ultricies eget. Pellentesque vitae lorem
sed dolor tempus semper. Curabitur et sapien urna. Maecenas interdum lo
rem quis sodales consequat. Nam aliquam suscipit ultricies. Curabitur co
ngue diam neque. Curabitur congue nec neque quis porta. Vivamus imperdie
t ligula eros. Vestibulum ante ipsum primis in faucibus orci luctus et u
ltrices posuere cubilia Curae;

Fusce ultrices sed elit id dapibus. Cras eget eros non odio facilisis ti
ncidunt at quis erat. Etiam nulla neque, consectetur id diam at, porta p
orttitor urna. Vestibulum eget tempor sem. Aenean a urna ac risus venena
tis semper. Quisque porta orci mauris, ac mollis ante eleifend ut. Nam l
acus purus, malesuada at libero ac, scelerisque eleifend ante. Cras et f
elis non sapien tincidunt efficitur id at risus. Praesent sit amet sapie
n vel metus auctor facilisis. Vestibulum sit amet dul lacus.

Donec ut nibh ac velit sodales ultricies. Etiam blandit ornare facilisis
. Mauris aliquam nec ligula vitae rhoncus. Phasellus iaculis leo libero,
ac posuere libero mollis quis. Vivamus nibh massa, vehicula eu fringill
a in, pellentesque in magna. Donec non mollis erat. Pellentesque ultrici
es, dui pulvinar mattis lobortis, sapien quam sodales urna, ut bibendum
ante lorem sit amet sem. Aliquam eros lacus, hendrerit sit amet arcu sed
, fermentum tempus leo. Fusce pharetra libero id viverra vehicula. Aenea
```

Fourth test: "python myclient.py 127.0.1.1 8888 PUT temp.txt"
AND
"python myserver.py 8888

This test proves the PUT request can transfer a file to the server. The putdata/temp.txt file is removed before this test is executed to prove it works correctly

```
Terminal
jared@jp-Linux: ~/Homework/data_comm/pg1
jared:pg1$ python myclient.py 127.0.1.1 8888 PUT temp.txt
Establishing connection...
Sending request PUT temp.txt HTTP/1.0

Sending data...
Sending data...
Sending data...
File was sent
Response received
Closing the connection...

**Reponse**
HTTP/1.0 200 OK FILE CREATED
*****

jared:pg1$ ls putdata/
temp.txt
jared:pg1$ cat putdata/temp.txt
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer malesuada lectus diam, in dapibus eros ultricies eget. Pellentesque vitae lorem sed dolor tempus semper. Curabitur et sapien urna. Maecenas interdum lorem quis sodales consequat. Nam aliquam suscipit ultricies. Curabitur congue diam neque. Curabitur congue nec neque quis porta. Vivamus imperdiet ligula eros. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae;

Fusce ultrices sed elit id dapibus. Cras eget eros non odio facilisis tincidunt at quis erat. Etiam nulla neque, consectetur id diam at, porta porttitor urna. Vestibulum eget tempor sem. Aenean a urna ac risus venenatis semper. Quisque porta orci mauris, ac mollis ante eleifend ut. Nam lacus purus, malesuada at libero ac, scelerisque eleifend ante. Cras et felis non sapien tincidunt efficitur id at risus. Praesent sit amet sapien vel metus auctor facilisis. Vestibulum sit amet dui lacus.

Donec ut nibh ac velit sodales ultricies. Etiam blandit ornare facilisis
```