Vanshika Shah

```
For more details, please visit https://support.apple.com/kb/HT208030.
Vanshikas-MacBook-Pro:HW4 vanshikashah$ python3 httpserver.py 127.0.0.1 12000
The server is ready to receive on port: 12000
```

Http-Client Output:

1) File not cached or cache doesn't exist

```
Vanshikas-MacBook-Pro:HW4 vanshikashah$ python3 httpclient.py 127.0.0.1:12000/filename.html

----HTTP Request----

GET /filename.html HTTP/1.1
Host: 127.0.0.1:12000


----HTTP Response---

HTTP/1.1 200 OK
Date: Sun, 08 Nov 2020 04:05:49 GMT
Last-Modified: Sat, 07 Nov 2020 23:44:51 GMT
Content-Length: 722
Content-Type: text/html; charset=UTF-8

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html>
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
  <meta http-equiv="Content-Style-Type" content="text/css">
  <title></title>
  <meta name="Generator" content="Cocoa HTML Writer">
  <meta name="CocoaVersion" content="1404.47">
  <style type="text/css">
    p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 14.0px Helvetica}
  </style>
</head>
<body>
<p class="p1">&lt;html&gt;</p>
<p class="p1">&lt;p&gt;First Line&lt;br /&gt;</p>
<p class="p1">Second Line&lt;br /&gt;</p>
<p class="p1">Third Line&lt;br /&gt;</p>
<p class="p1">MODIFIED--&lt;p&gt;</p>
<p class="p1">&lt;html&gt;</p>
</body>
</html>
```

2) File Not Modified On Server(304)

```
Vanshikas-MacBook-Pro:HW4 vanshikashah$ python3 httpclient.py 127.0.0.1:12000/filename.html

----HTTP Request----

GET /filename.html HTTP/1.1
Host: 127.0.0.1:12000
If-Modified-Since: Sat, 07 Nov 2020 23:44:51 GMT


----HTTP Response---

HTTP/1.1 304 Not Modified
Date: Sun, 08 Nov 2020 04:06:32 GMT
```

3) File modified on server

```
Vanshikas-MacBook-Pro:HW4 vanshikashah$ python3 httpclient.py 127.0.0.1:12000/filename.html

----HTTP Request----

GET /filename.html HTTP/1.1
Host: 127.0.0.1:12000
If-Modified-Since: Sat, 07 Nov 2020 23:44:51 GMT


File has been modified on server:
----HTTP Response---

HTTP/1.1 200 OK
Date: Sun, 08 Nov 2020 04:07:12 GMT
Last-Modified: Sun, 08 Nov 2020 04:07:06 GMT
Content-Length: 725
Content-Type: text/html; charset=UTF-8

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html>
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
  <meta http-equiv="Content-Style-Type" content="text/css">
  <title></title>
  <meta name="Generator" content="Cocoa HTML Writer">
  <meta name="CocoaVersion" content="1404.47">
  <style type="text/css">
    p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 14.0px Helvetica}
  </style>
</head>
<body>
<p class="p1">&lt;html&gt;</p>
<p class="p1">&lt;p&gt;First Line&lt;br /&gt;</p>
<p class="p1">Second Line&lt;br /&gt;</p>
<p class="p1">Third Line&lt;br /&gt;</p>
<p class="p1">FILE MODIFIED&lt;p&gt;</p>
<p class="p1">&lt;html&gt;</p>
</body>
</html>
```

4) File Not Found (404)

```
Vanshikas-MacBook-Pro:HW4 vanshikashah$ python3 httpclient.py 127.0.0.1:12000/filename3.html

----HTTP Request----

GET /filename3.html HTTP/1.1
Host: 127.0.0.1:12000


----HTTP Response---

HTTP/1.1 404 Not Found
Date: Sun, 08 Nov 2020 04:07:39 GMT
Content-Length: 0
```