

Vladyslav Polishchuk

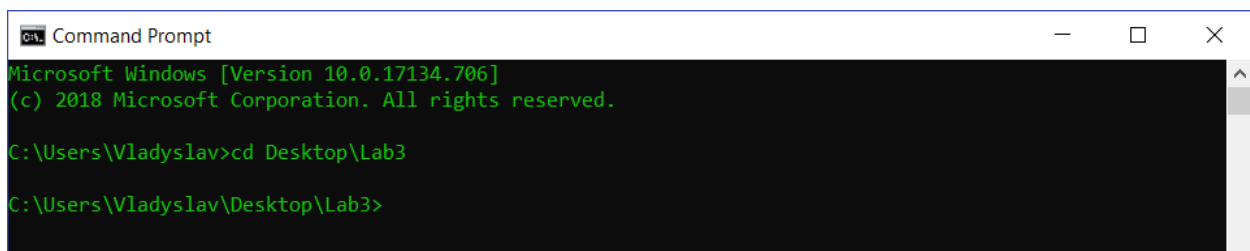
5/2/2019

CISC 4615 – Data Communication and Networking

Lab 3 Report

I chose to stick with Python for this lab, and therefore did not need to write any code. What I did need to do was research the built-in server module that comes with Python – the only information we were provided in class is that it has something to do with the “python -m” command. After a big of googling and finding my way to Python 3’s documentation pages, I realized the module I was looking for was “SimpleHTTPServer”, which provides standard GET and HEAD request handlers.

The way SimpleHTTPServer works is very streamlined and simple: using a command line or terminal, navigate to the directory of the necessary server files (including index.html, app.js, Fordham_logo.png, FordhamUniversity.mp4, and style.css) using the “cd” command:

A screenshot of a Windows Command Prompt window. The title bar reads "Command Prompt". The text inside the window is as follows:

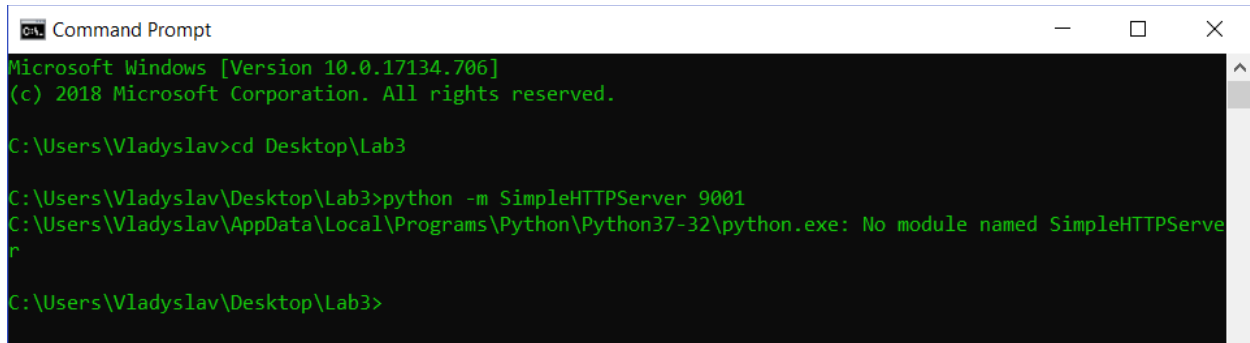
```
Microsoft Windows [Version 10.0.17134.706]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Vladyslav>cd Desktop\Lab3

C:\Users\Vladyslav\Desktop\Lab3>
```

Next, run python’s built-in SimpleHTTPServer module using “python -m SimpleHTTPServer”. The documentation noted that running the command as listed above actually makes it default to port 8000, but this can be changed by appending the desired port to the end of the command: “python -m SimpleHTTPServer 9001”.

Unfortunately, this didn't work:

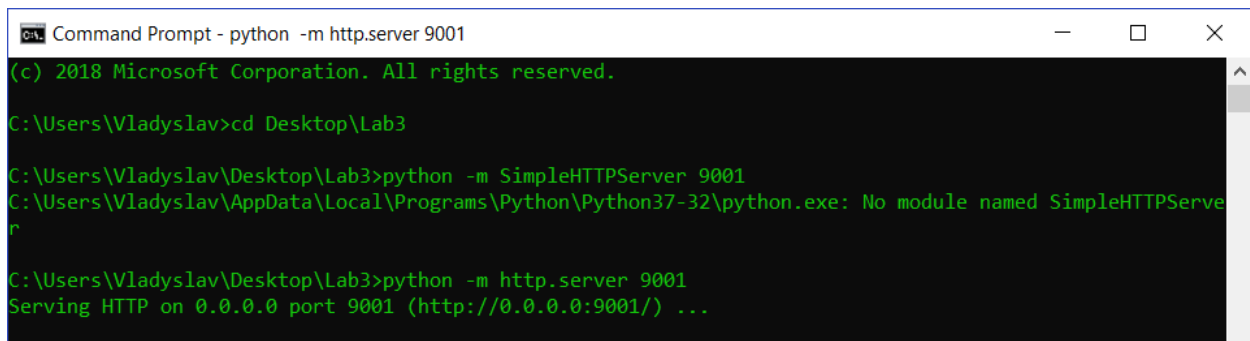


```
Command Prompt
Microsoft Windows [Version 10.0.17134.706]
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C:\Users\Vladyslav>cd Desktop\Lab3

C:\Users\Vladyslav\Desktop\Lab3>python -m SimpleHTTPServer 9001
C:\Users\Vladyslav\AppData\Local\Programs\Python\Python37-32\python.exe: No module named SimpleHTTPServer
C:\Users\Vladyslav\Desktop\Lab3>
```

My initial reaction was to run “pip install SimpleHTTPServer”, but this wasn't necessary – the module should automatically come with my installation of Python 3 and, additionally, running pip install doesn't work because the module is not found. My journey took me to the pages of Stack Overflow, where I realized my mistake: Windows devices give the error I received above because the SimpleHTTPServer module is renamed “http.server” on Windows installations of Python. I corrected my code, and it ran successfully:

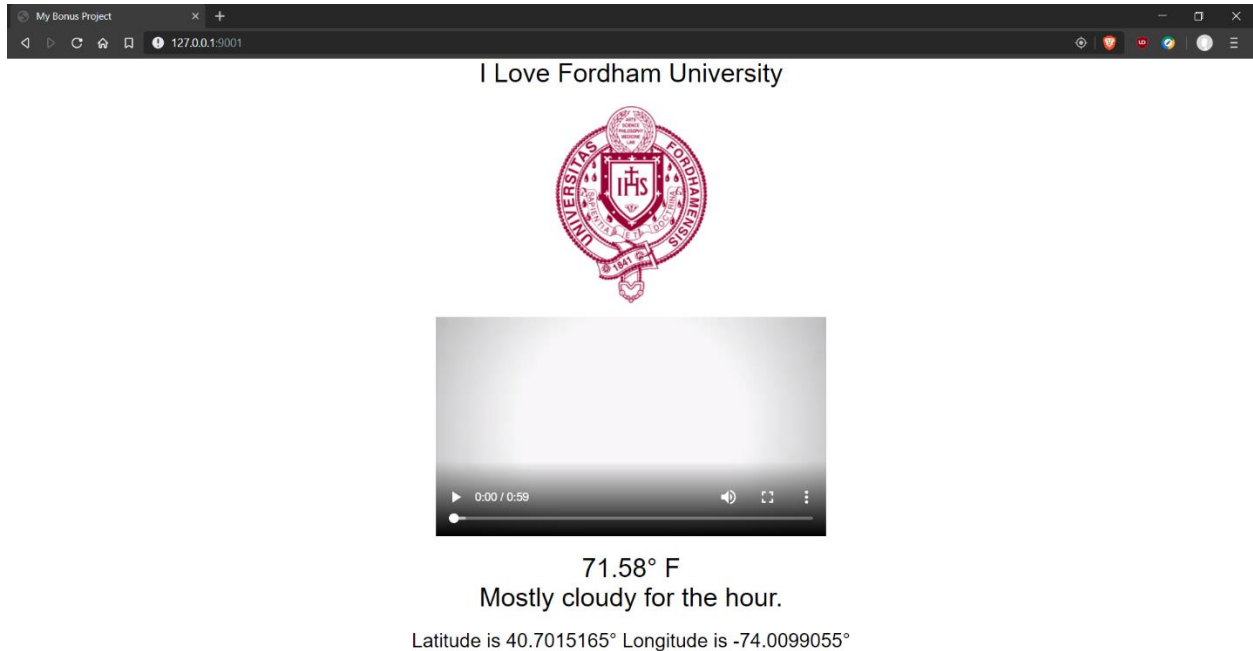


```
Command Prompt - python -m http.server 9001
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C:\Users\Vladyslav>cd Desktop\Lab3

C:\Users\Vladyslav\Desktop\Lab3>python -m SimpleHTTPServer 9001
C:\Users\Vladyslav\AppData\Local\Programs\Python\Python37-32\python.exe: No module named SimpleHTTPServer
C:\Users\Vladyslav\Desktop\Lab3>python -m http.server 9001
Serving HTTP on 0.0.0.0 port 9001 (http://0.0.0.0:9001/) ...
```

I then pulled up my trust browser, and navigated to the local address provided in the lab instructions (127.0.0.1:9001):



As I connected to the local server, my terminal displayed the GET functions occurring underneath the hood:

```
Command Prompt - python -m http.server 9001
C:\Users\Vladyslav\Desktop\Lab3>python -m http.server 9001
Serving HTTP on 0.0.0.0 port 9001 (http://0.0.0.0:9001/) ...
127.0.0.1 - - [02/May/2019 16:42:47] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [02/May/2019 16:42:47] "GET /style.css HTTP/1.1" 200 -
127.0.0.1 - - [02/May/2019 16:42:47] "GET /fordham_logo.png HTTP/1.1" 200 -
127.0.0.1 - - [02/May/2019 16:42:47] "GET /app.js HTTP/1.1" 200 -
127.0.0.1 - - [02/May/2019 16:42:47] "GET /FordhamUniversity.mp4 HTTP/1.1" 200 -
127.0.0.1 - - [02/May/2019 16:42:47] code 404, message File not found
127.0.0.1 - - [02/May/2019 16:42:47] "GET /favicon.ico HTTP/1.1" 404 -
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```