

Learning Diary Exercise 2.1

1. How long did you work on the exercise (in minutes or hours)

It took me around 6 hours .

2. Describe the approach of your solution. Discuss aspects such as the network operations, error handling, overall design ,Why did you choose this approach?

I start first by understanding the concept of the IP versions , Once I learned the basics of it , I first tried to separate the string that the server sent me by putting each in their variable . Secondly I used the logic to code by creating a function that identify whether the address that the server sent is IPV4 or IPV6. That work fine for me

3. Did you have any failures or problems before successful solution? Discuss (your analysis) of the reasons of problems, and how you fixed them

1) I first spent an hour trying to compile my program with NAT because I forgot that it does not work with it once I use my ethernet cable I start to see some progress.

2) I forgot to use sockname function which result sending all the time the same address the server was sending to me .

3) I Had some hardcoding problem with my IP address I tried first to write it to the string for secondary socket but it did not work as server also expects ipv6 address.

4) My IPV6 code was not write and I was having error such “inet_ntop: No space left on device” and the server were sending me timeout message that was due to wrong allocation of the memory space.

4. Did you learn anything? (or did you know it already? or did you not understand what were you supposed to learn?)

I learnt about IPv4 and IPv6 address basics . Also creating the favored socket based on the necessity. I did not know anything before about this topics but ofcourse I learned a lot .

5. Give feedback about exercise and related material. Is there something that could be improved?

I am happy with the current content and the examples in the course material are very helpful