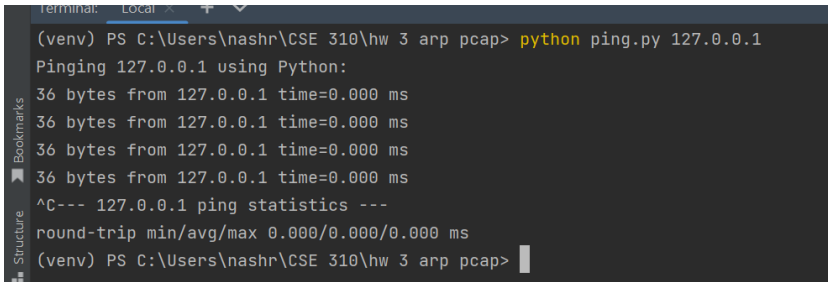
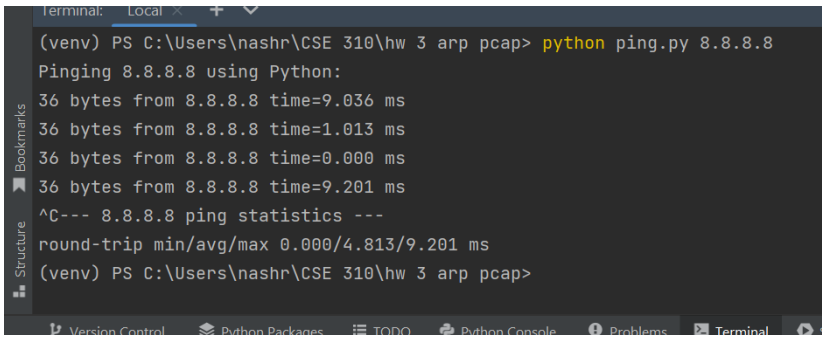
Part A

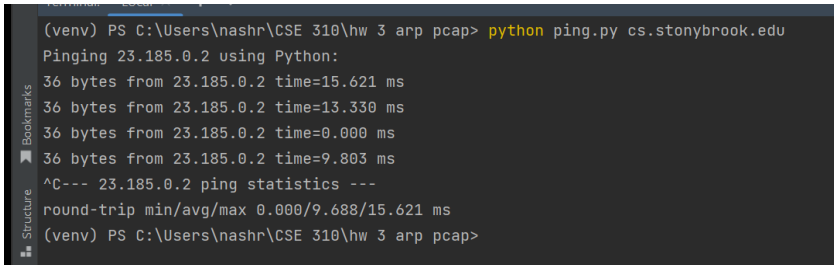
Local



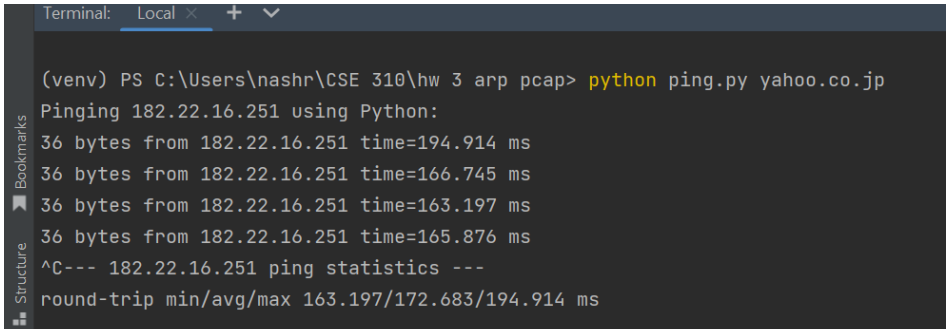
8.8.8.8



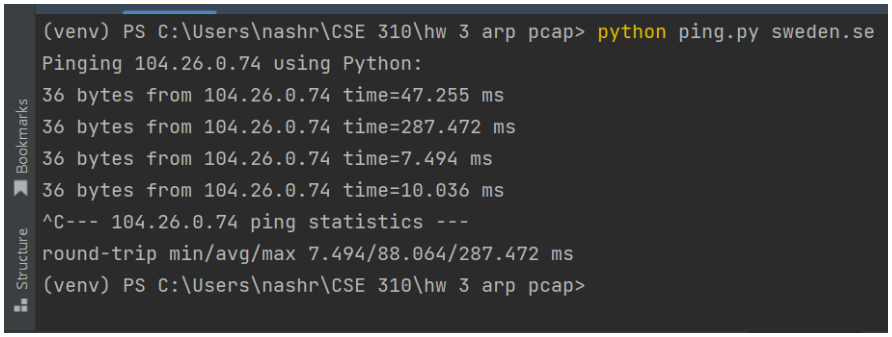
cs.stonybrook.edu



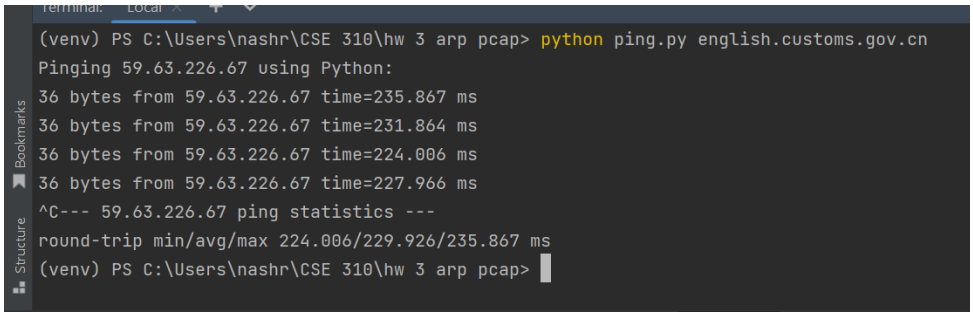
yahoo.co.jp



sweden.se



english.customs.gov.cn



The local servers such as local host and stonybrook have a minimum RTT of 0 because the root servers for those websites are closer than the ones outside of the U.S. As shown above the non US website have a larger minimum RTT because the location of those root servers are far from here.

Part A

Go to the terminal and type each of these individually. Press ctrl c to terminate them after 4 results are show to display the min max avg

python ping.py 127.0.0.1

python ping.py 8.8.8.8

python ping.py google.com

python ping.py cs.stonybrook.edu

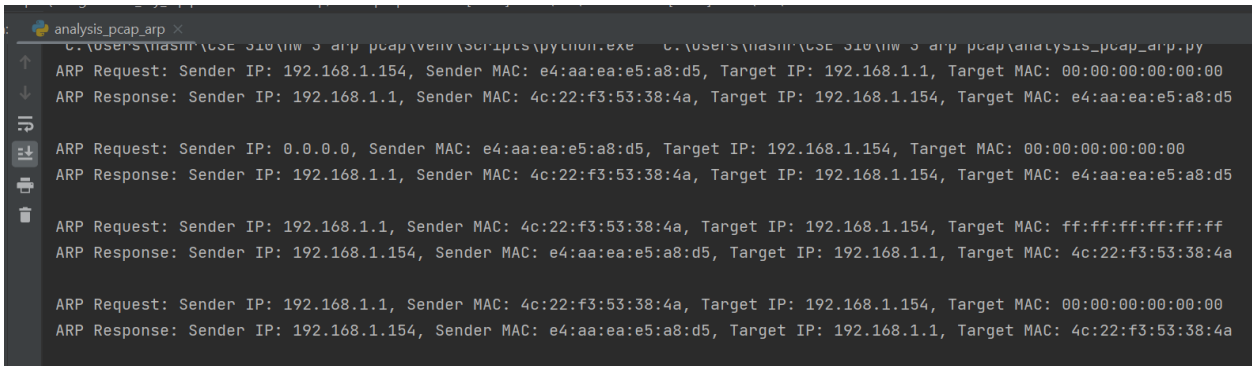
python ping.py yahoo.co.jp

python ping.py sweden.se

python ping.py english.customs.gov.cn

Part B

You can press run for the program to work. You will have to have my files in the same folder for it read my pcap file.
It will display these outputs



ii) I used dpkt to read the file, buff to read each of the byte values to check whether it is an ARP packet or not. I used functions of socket and binascii to convert the bytes to strings of the IP addresses and the MAC addresses. My IP address is the 192.168.154 and MAC address of my router. I created a method to format the MAC address with colons. I used Youtube to learn how to use Wireshark and more about ARP byte structure and the bytes of the IP address and MAC addressses