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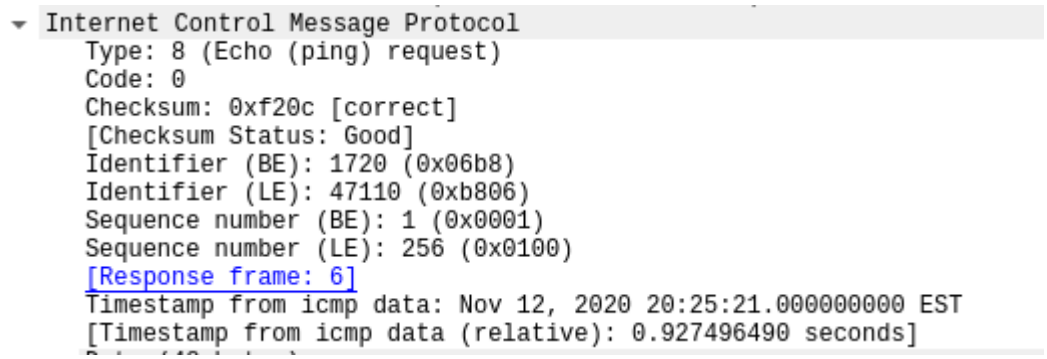
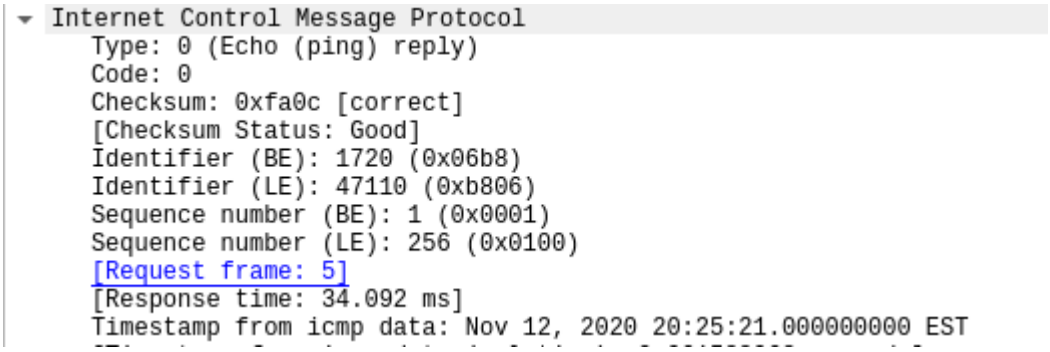
CSCI-340

Part 1:

1) The result is the output "Xavier CS web server is up". The wireshark packet capture shows the Echo Request of Type 8, Code 0:



as well as the Echo Reply of Type 0, Code 0:



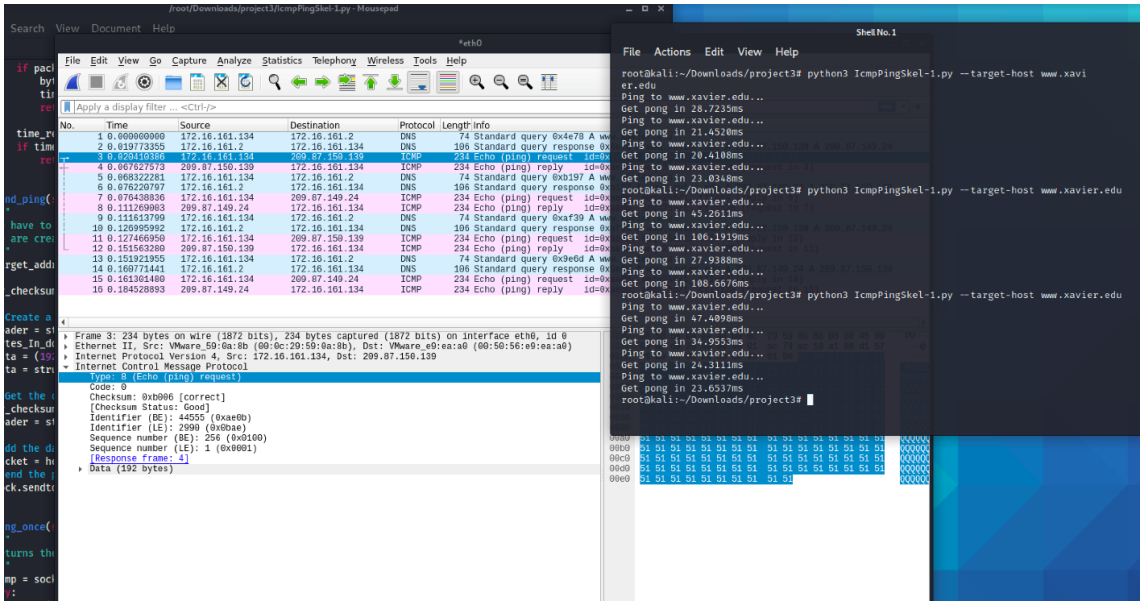
2) Within the code, it appears that the command "ping -c 1 www.xavier.edu" is split up and ran within the subprocess.check_call function, and if there is any error output the stdout/stderr will capture the value in bytecode, and the subprocess.check_call method will call subprocess.CalledProcessError if the value returned is not 0.

Part 2:

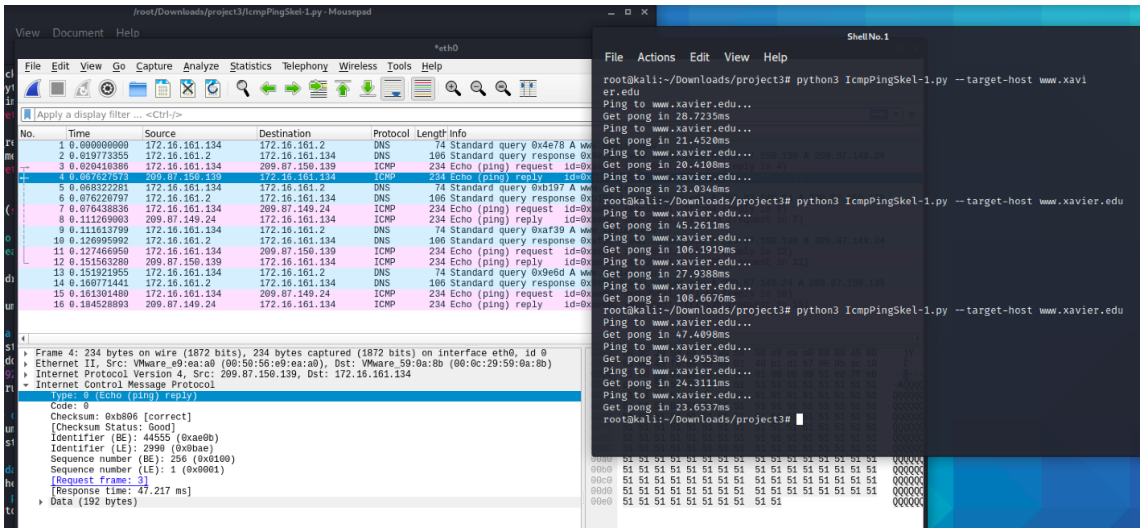
Completed Code with comments submitted in canvas.

Part 3:

1) ICMP Request Packet: Type 8, Code 0. This matches the packet we created in the program as the ICMP type is the same.



2) ICMP Reply Packet: Type 0, Code 0. We did not get a warning within this packet



3) The ICMP Packet data is very similar to the dummy ICMP data we created on the Python program because the Typing is the same.