IP ADDRESS CLASSIFICATION (TASK 1)

1 A
2 B

3 C

4 B

5 C

6 A

7 C

8 D

9 B

10 A

11 E

12 C

13 A

14 C

15 C

16 A

17 A

18 B

19 C

NETWORK AND HOST IDENTIFICATION (TASK 2)

Network & Host Identification

Circle the network portion of these addresses:	Circle the host portion of these addresses:
177.100.18.4	10.15.123.50
119.18.45.0	171.2.199.31
209.240.80.78	198.125.87.177
199.155.77.56	223.250.200.222
117.89.56.45	17.45.222.45
215.45.45.0	126.201.54.231
192.200.150.0	191.41.35.112
95.0.21.90	155.25.169.227
33.0.0.0	192.15.155.2
158.98.80.0	123.102.45.254
217.21.56.0	148.17.9.155
10.250.1.1	100.25.1.1
150.10.15.0	195.0.21.98
192.14.2.0	25.250.135.46
148.17.9.1	171.102.77.77
193.42.1.1	55.250.5.5
126.8.156.0	218.155.230.14
220.200.23.1	10.250.1.1

NETWORK ADDRESS

Network Addresses

Using the IP address and subnet mask shown write out the network address:

188.10.18.2 255.255.0.0	188 . 10 . 0 . 0
10.10.48.80 255.255.255.0	10 . 10 . 48 . 0
192.149.24.191 255.255.255.0	192.149.24.0
150.203.23.19 255.255.0.0	150.203.0.0
10.10.10.10 255.0.0.0	10.0.0.0
186.13.23.110 255.255.255.0	186.13.23.0
223.69.230.250 255.255.0.0	223.69.0.0
200.120.135.15 255.255.255.0	200.120.135.0

HOST ADDRESS

Using the IP address and subnet mask shown write out the host address:

188.10.18.2 255.255.0.0	0 . 0 . 18 . 2
10.10.48.80 255.255.255.0	0 . 0 . 0 . 80
222.49.49.11 255.255.255.0	0.0.0.80
128.23.230.19 255.255.0.0	0.0.230.19
10.10.10.10 255.0.0.0	0.10.10.10
200.113.123.11 255.255.255.0	0.0.0.11
223.169.23.20 255.255.0.0	0.0.23.20
203.20.35.215 255.255.255.0	0.0.0.215

DEFAULT SUBNET MASK

Default Subnet Masks

Write the correct default subnet mask for each of the following addresses:

177.100.18.4	255 . 255 . 0 . 0
119.18.45.0	255 . 0 . 0 . 0
191.249.234.191	255.255.0.0
223.23.223.109	255.255.255.0
10.10.250.1	255.0.0.0
126.123.23.1	255.0.0.0
223.69.230.250	255.255.255.0
192.12.35.105	255.255.255.0
77.251.200.51	255.0.0.0
189.210.50.1	255.255.0.0

WIRESHARK

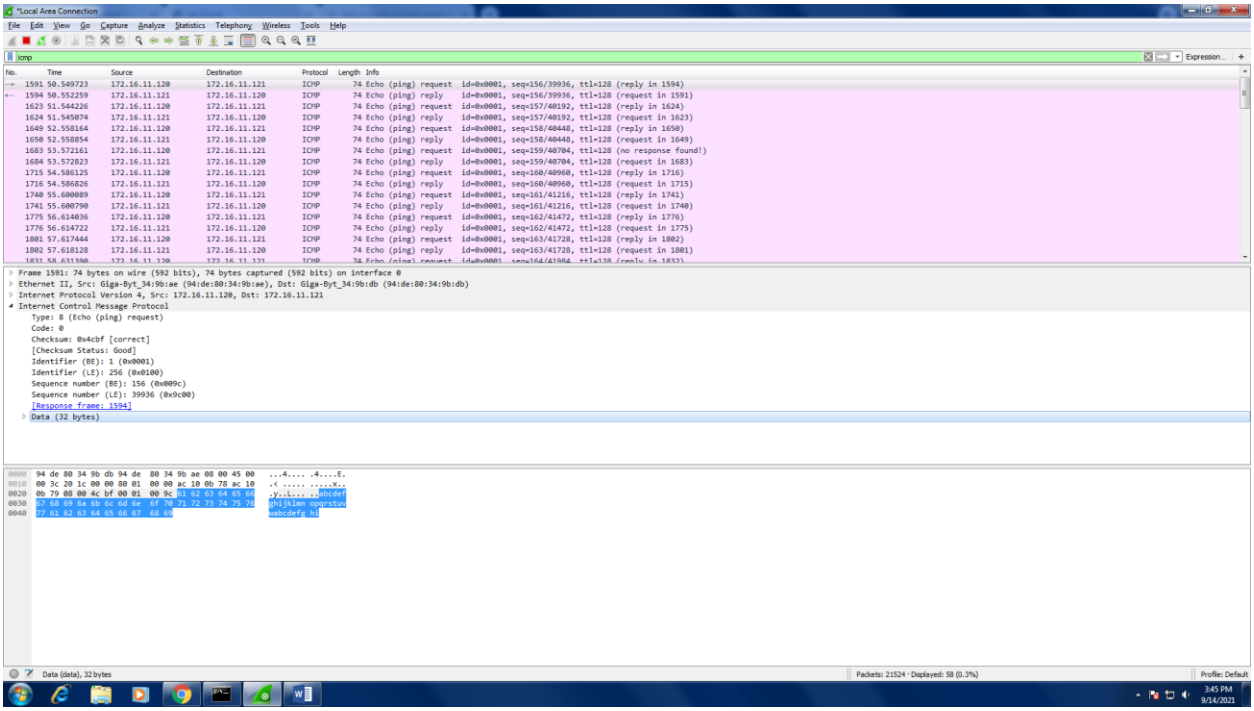
Q.1 WHAT IS THE IP ADDRESS OF YOUR HOST? WHAT IS THE IP ADDRESS OF THE DESTINATION HOST?

Source: 172.16.11.121
Destination: 172.16.11.120

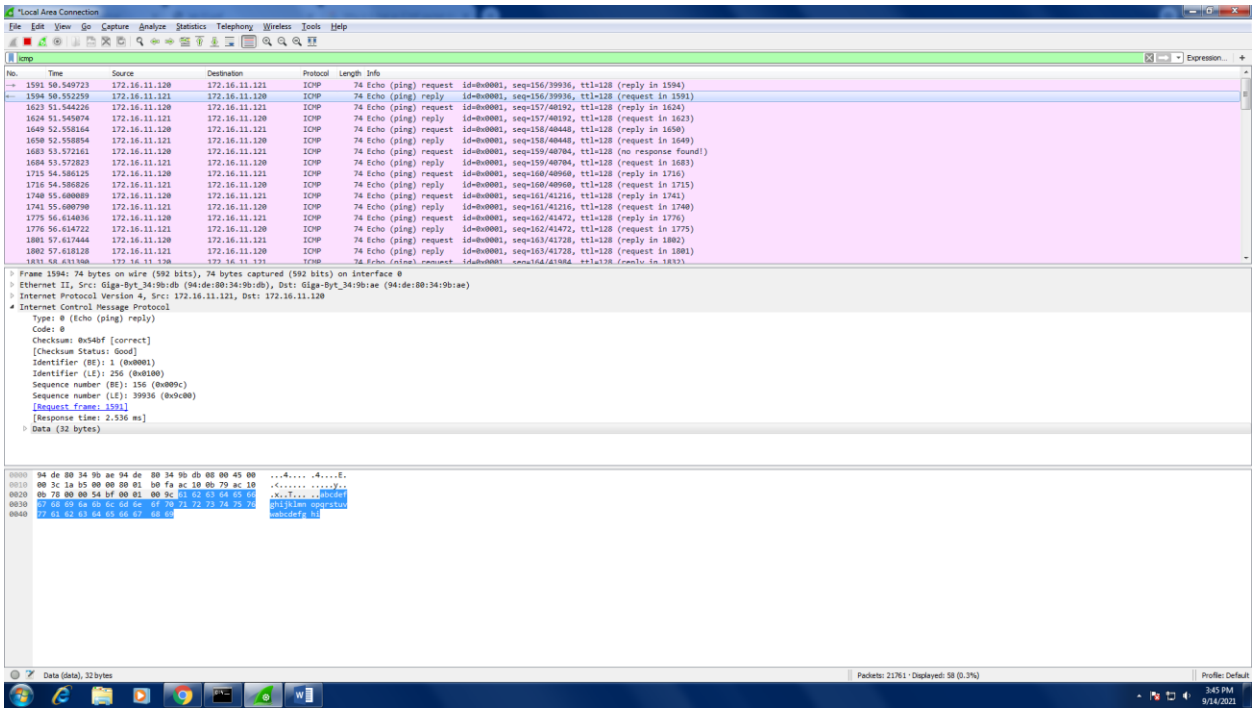
Q.2 WHY IS IT THAT AN ICMP PACKET DOES NOT HAVE SOURCE AND DESTINATION PORT NUMBERS?

The ICMP packet does not have source and destination port numbers because it communicates information between hosts and routers.

Q.3 EXAMINE ONE OF THE PING REQUEST PACKETS SENT BY YOUR HOST. WHAT ARE THE ICMP TYPE AND CODE NUMBERS? WHAT OTHER FIELDS DOES THIS ICMP PACKET HAVE? HOW MANY BYTES ARE THE CHECKSUM, SEQUENCE NUMBER AND IDENTIFIER FIELDS?



Q.4 EXAMINE THE CORRESPONDING PING REPLY PACKET. WHAT ARE THE ICMP TYPE AND CODE NUMBERS? WHAT OTHER FIELDS DOES THIS ICMP PACKET HAVE? HOW MANY BYTES ARE THE CHECKSUM, SEQUENCE NUMBER AND IDENTIFIER FIELDS?



Q.5 OPEN YOUR BROWSER AND GO TO WWW.GOOGLE.COM CAPTURE PACKETS ON WIRESHARK, ATTACH SCREENSHOTS IN SUBMISSION.