Lab07

Exercise1

Q2. Source IP address: 192.168.1.100

Destination IP address: 64.233.169.104

TCP source port: 4335 TCP destination port: 80

Q3. At time 7.158797.

Source IP address: 64.233.169.104

Destination IP address: 192.168.1.100

TCP source port: 80 TCP source port: 4335

Q7. Source IP address: 71.192.34.104

Destination IP address: 64.233.169.104

Source port:4335 Destination port: 80

Compare with request in NAThomeside, Source IP address is completely different while destination IP address is the same.

Q9. Checksum is different. Since IP address in header is different, the checksum becomes different.

Q11.Source IP address: 64.233.169.104

Destination IP address: 71.192.34.104

Source TCP port: 80 Destination port: 4335

Destination IP address is different. Other fields are the same.

Q13.Source IP address: 64.233.169.104

Destination IP address: 71.192.34.104

Source port: 80

Destination port: 4335

Destination IP address is different. The other fields are the same.

Q14.

Translation table	
WAN side address	LAN side address
71.192.34.104:4335	192.169.1.100:4

Ex2.

Q2. Destination address: 00:06:25:da:af:73

It could be wrong as well. Since it might be the MAC address of router. Since this IP address may own several servers. Router will connect them together then give the MAC address of router.

Q4. 61 Bytes

```
0000
                                59 a9 3d 68 08
      00 06 25 da af
                     73 00 d0
                                                00 45 00
                                                            ··%··s··
0010
      02 a0 00 fa 40
                     00 80 06
                                bf c8
                                       c0 a8 01
                                                69 80 77
                                         a5 3f
65 74
                                99 a7
0020
      f5 0c 04 22 00 50 65 14
                                                b4 50 18
                                       ac a5
0030
      fa f0 7e 4f 00 00 47 45
                                54 20 2f
                                                68 65 72
      65 61 6c 2d 6c 61 62 73
                                2f 48 54 54 50 2d 65 74
0040
                                61 62 2d 66 69 6c 65 33
0050
      68 65 72 65 61 6c 2d 6c
      2e 68 74 6d 6c 20 48 54
                                54 50 2f 31 2e 31 0d 0a
```

This is the screenshot of Ethernet frame. It does not include preamble bytes. It includes Dest MAC, Source MAC, Type/length.

Q5. Ethernet source address: 00:06:25:da:af:73 No. this is the MAC address of switch.

Ex3.

Q1. Source address: 00:d0:59:a9:3d:68

Destination address: ff:ff:ff:ff:ff

Destination address is used for broadcasting. All nodes on LAN receive ARP query.

Q6. Target IP address.

Q8. 00 02

Q9. In the sender MAC address field.

Q10. Destination address: 00:d059:a9:3d:68 Source address: 00:06:25:da:af:73