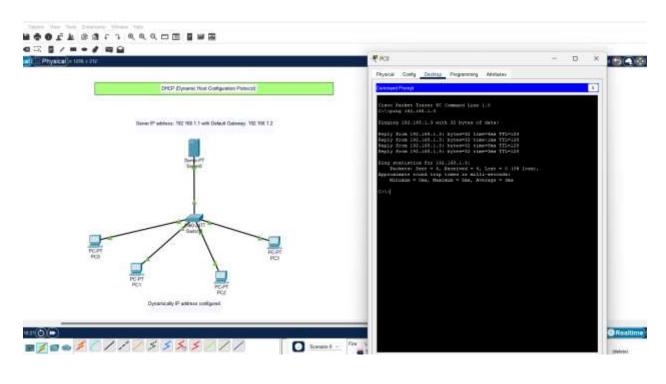
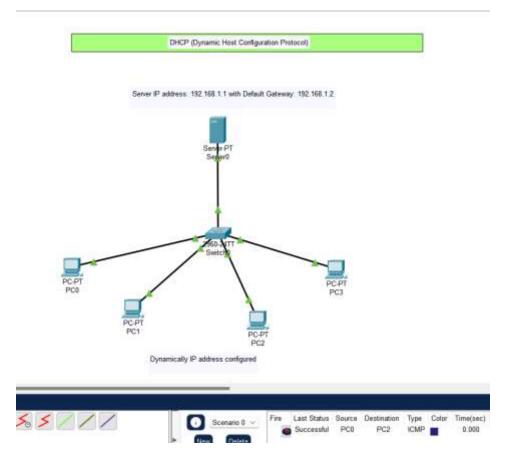
Q) Simulate DHCP server on packet tracer.

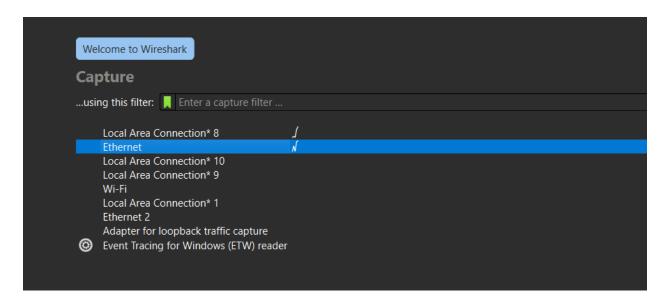
=> The .pkt file is attached to this assignment.





- Q) Track DHCP packets on your local network using Wireshark.
- => In order to track DHCP packet on our local network using Wireshark, the steps to be followed are:

Step 1: Go to wireshark and select the network interface (Ethernet in my case)



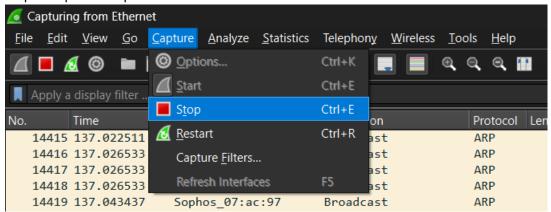
Step 2: Then, Open the command prompt and run these two commands:

C:\Users\ACER>ipconfig /release

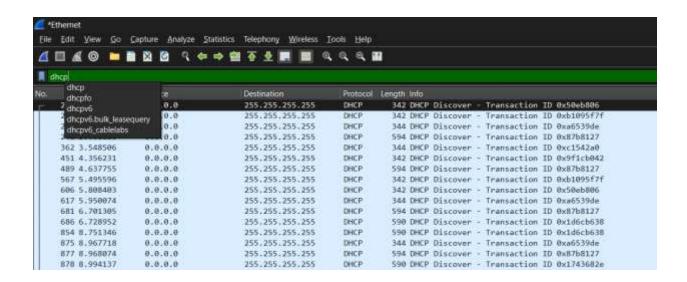
C:\Users\ACER>ipconfig/rebase

```
/setclassid6 adapter [classid] ]
where
     adapter
                              Connection name
                             (wildcard characters * and ? allowed, see examples)
     Options:
                              Display this help message
Display full configuration information.
         /?
/all
                              Release the IPv4 address for the specified adapter.
Release the IPv6 address for the specified adapter.
         /release
         /release6
         /renew
                              Renew the IPv4 address for the specified adapter.
                              Renew the IPv6 address for the specified adapter. Purges the DNS Resolver cache.
         /renew6
         /flushdns
                              Refreshes all DHCP leases and re-registers DNS names
         /registerdns
                              Display the contents of the DNS Resolver Cache.
Displays all the dhcp class IDs allowed for adapter.
Modifies the dhcp class id.
         /displaydns
         /showclassid
         /setclassid
         /showclassid6
                              Displays all the IPv6 DHCP class IDs allowed for adapter.
         /setclassid6
                              Modifies the IPv6 DHCP class id.
The default is to display only the IP address, subnet mask and
default gateway for each adapter bound to TCP/IP.
For Release and Renew, if no adapter name is specified, then the IP address leases for all adapters bound to TCP/IP will be released or renewed.
For Setclassid and Setclassid6, if no ClassId is specified, then the ClassId is removed.
Examples:
     > ipconfig
                                               ... Show information
     > ipconfig /all
                                               ... Show detailed information
     > ipconfig /renew
                                               ... renew all adapters
     > ipconfig /renew EL*
                                               ... renew any connection that has its
                                                    name starting with EL
                                               ... release all matching connections,
eg. "Wired Ethernet Connection 1"
"Wired Ethernet Connection 2"
     > ipconfig /release *Con*
                                                                                               or
     > ipconfig /allcompartments
                                               ... Show information about all
                                                    compartments
```

Step 3: Capture the packet on the wireshark.



Step 4: Filter the dhcp packets.



Step 5:

Look for DHCP packets in the capture such as:

DHCP Discover: Sent by a client to find available DHCP servers.

DHCP Offer: Sent by a server in response to a DHCP Discover, offering an IP address.

DHCP Request: Sent by a client to request the offered IP address.

DHCP Acknowledge: Sent by the server to acknowledge the client's request and confirm the IP address

assignment.

This is what I got:

