P.Damodar 411940

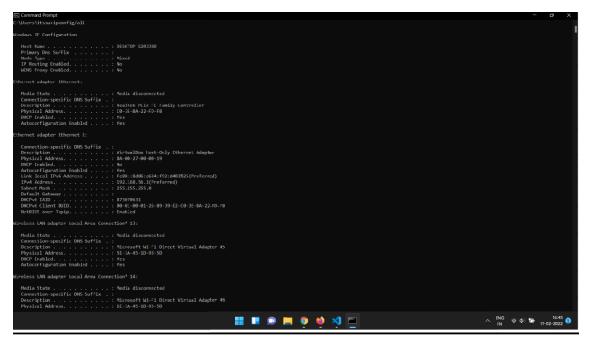
Type your text

2)

DHCP: Dynamic Host Configuration Protocol

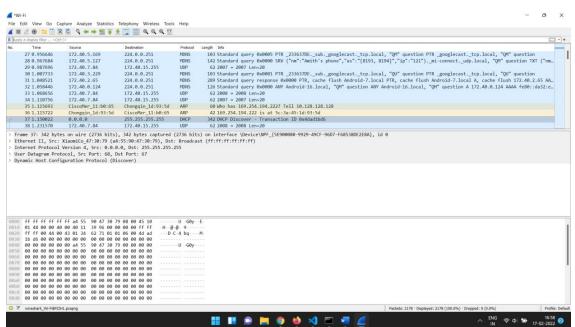
It is a network management protocol for IP networks for automatically assigning IP addresses and other communication parameters to devices connected to the network using a client-server architecture

IP-configuration:



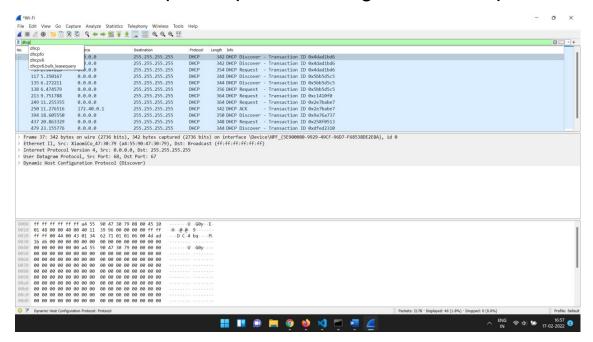
We release our IP address to understand how DHCP works

Next we capture our packets in wireshark



We enter ipconfig/renew ,which gets new IP addresses for those networks which have DHCP enabled ,we confirm as below:

We filter out captured packets using filter on dhcp:



The requests and procedures like "Offer", "request", "Ack", "Discover".

Initially we have 0.0.0.0 IP address then we requested DHCP server for IP address then DHCP server offered us a IP address for lease and then we gave ack(acknowledgement) for acceptance of that IP address.

Also destination address is 255.255.255.255 which means it is broadcasting to all hosts, so the DHCP server will know about DHCP client.