(CN Assignment-1 Grhanto (GRwineshark-ip-v7)

- 1) The ipaddress of my computer is 192.168.1.56
- 2) Within the header the value of upper layer protocol field is ICMP (OXOI)
 - 3) There are 20 bytes in the IP header and total length 84, this gives 64 bytes in the in the Payload of the IP data gram.
 - 4) The more fragment bit=0, so data is not fragmented.
 - 5) Identification, Time to live header cheaksum always change.

Fields that stay constant 6) one!--> version (using IPV4 for all packets) -) source IP -> header length -) destination IP -> Differentiated Service -> upper layer profocol. Fields that must change:--) Identification (IP packets must have different ids) -) Time to live (trace noute increments each subsequent packets)

Theader cheaksum

- 7) It header identification field in (nement with each ICMP Echo (ping) neguest.
 - 8) identification = 44368 ttl = 64
 - The identification field than changes for all ICMP
 TTL -exceeded replies because
 the identification field is
 a unique value where
 two on more if data grams
 have the same identification
 value, then it means that
 the ip datagrams are fragments
 of a single large IP datagram.

- 10) Yes, this packet has been fragmented accross morre than one datagram (Il datagrami).
 - Inagments is set, indicating that the datagram has been that the datagram has been fragmented. Since the fragment offset is 0, we know that this offset is 0, we know that this is she first fragment. The is she first fragment total first data gram has total tength of 1500, including the header.
 - (2) We can tell that this is not the first fragment, since the fragment offset is 1480. fragment of stagment, since It is the last fragment, since the more fragment flag is not set.

- 13. The IP header fields that changed b/w the fragmients are, - total length, flags, fragment offset & cheaksum.
 - 14. After switching to 3500, there are 3 packets created from original datagram.
 - The IP header fields that changed b/w all of the packets are i fragmented offset and cheaksum.