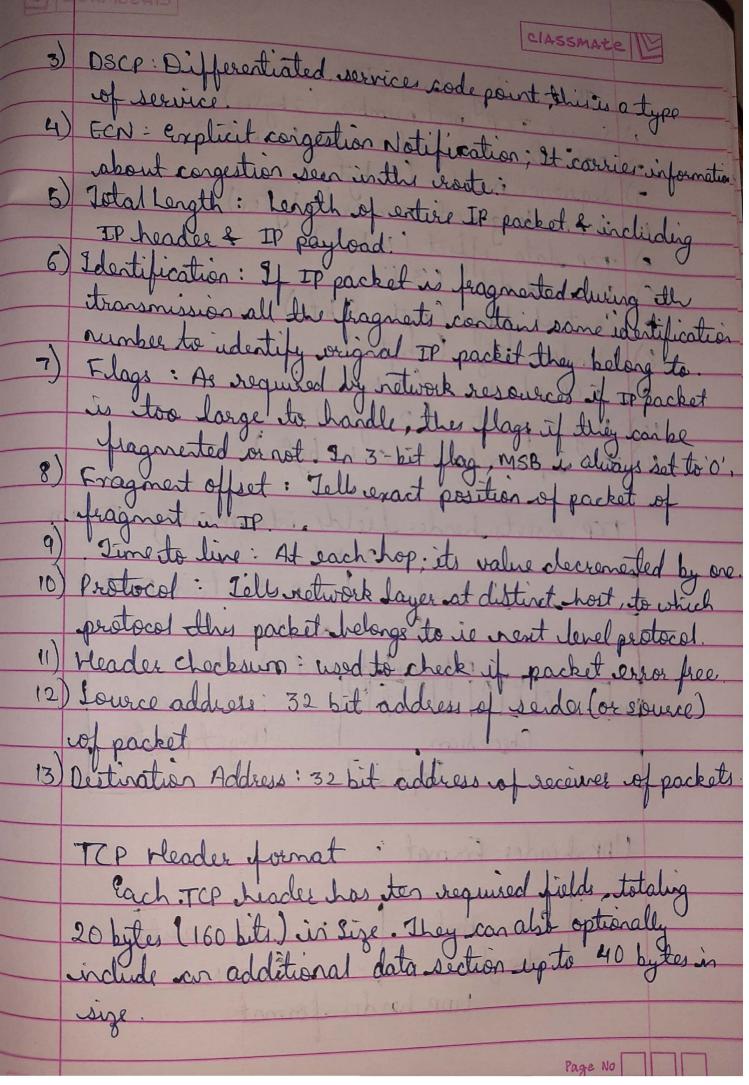
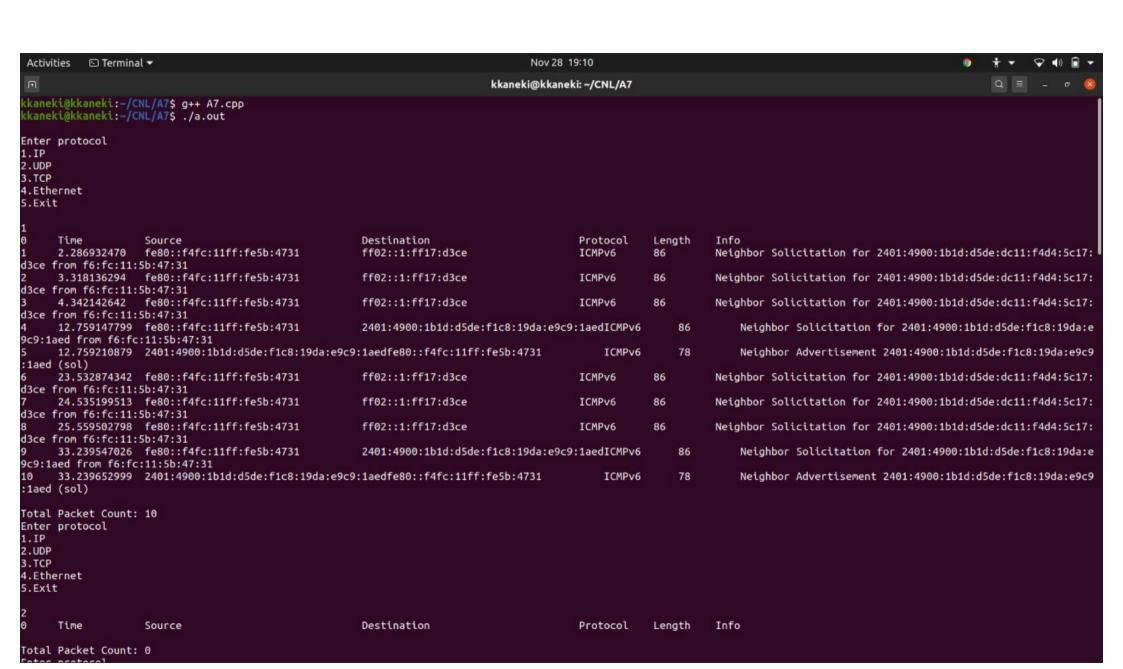
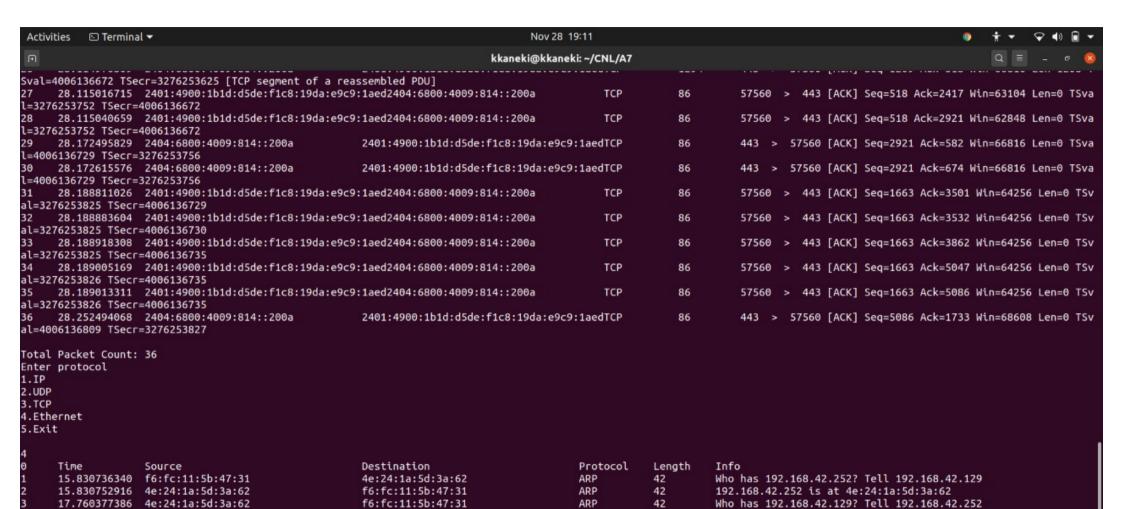
CIASSMATE Assignment No.: 7 Title: Packet Sniffing Problem statement: Study of wireshark & , IP, TCP & lupp and write a program to analy Objectives: learn of understand header format of ethernet. 2) To learn concept of wireshark Wirestack: dule use a packet sniffer co ornely known as ETHEREAL) is a free packet sie analyses which is available forboth UNIX-like in, MacOS, BSD& Islatis) & Windows It captures packets from a network interface of adisplays other with detailled protocol information Wereshark, however, is a passine analyzer. It only captures packet without manipulate them. It reither sands packet to the network now does other activ operations



C. TOOMALE IN
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This is layout of TCP leaders. 1) Source TCP port number (2 bytes) 2) Destination TCP port number (2 bytes).
This is layout of (2 bytes)
2) Source TCP port number (2 bytes). 2) Destination TCP port number (2 bytes).
3) Sequence number (4 bytes): 4) Acknowledgement number (4 bytes).
4) Heknowledgement (4 bets).
5) Ter data offset (4 bits). 6) Reserved data (3 bits)
7) Control flags (upto 9 bits)
8) Window Size (2 butes).
8) Window Size (2 bytes). 9) T.CP checksum (2 bytes).
10) Urgert pointer (2 bytes).
11) to optional data (0-40 bytes).
The state of the s
TCP nserts header field into message stream
32 bit
Source Port Destration Port
Sequence Number.
Acknownledgeniet Number
Hier regard & & & & & & Window
Checksum Urgent pointer
Coption Coption
UDP header Format:
and the shirt hair of the share got the
Source Port : Doitiontier part
Source Port Destination port ! Longth Chacksum
UDP header format.
Side Factor of Contract.

Because UPP is significantly more limited in compatability than TCP, its headers are much smaller. A UPP header contains 8 byte, divided 1) Dource Port number (2 bytes) 2) Destination post number (2 bytes) 3) Length of data (2 bytes) 4) Upe checks um (2 bytes). analyse following packet format captured the wireshark. 1. Ethernet 2. IP 3. TCP 4. UPP.





ARP

42

192.168.42.129 is at f6:fc:11:5b:47:31

4e:24:1a:5d:3a:62

Total Packet Count: 4
Enter protocol
1.IP
2.UDP
3.TCP
4.Ethernet

5.Exit

17.760968911 f6:fc:11:5b:47:31