	Assignment No. A7.
	Title: Analyze packet formats
	Problem Statement: Write a program in c/C++ to analyze packet formatz captured through wireshark for wired network  1. Ethernet
	3. TCP
-	4. UDP
-	Objectives: Understand ethernet, IP, TCP, UDP packet formats.
)	Theory: Ethernet
-	Preamble Destination Source Type data TCS.
	The preamble consists of 7 bytes all of the form 1010 1010 and is used by receives to allow it to establish synchronization. The MAC addresses used in 8023 are always 48 bits long
	The MAC Addresses used in 8023 are always 48 bits long
100	the length othertype field indicates number of lyter of data in the frames payload and can be to 1500 bytes.  The frame check sequence (FCS) is a 4-ortel CRC that allows detection of coccupted data
77	he frame check sequence (FCS) is a 4-ortet CRC that allows detection of corrupted data
	2020/11/09 11:44

Source address Destination address Options Data Version: A 4- bits field that identifies the IP version A 4-bit field containing length of IP header TO Precidence: A 3-bit field used to identify level of service of packet receives in network. Total length: Specified the length of the IP, packet which is 216. set to a number and by every router to it passes and is discarded if its value is 0. 2020/11/09 11:44 3) TCP: Destination port Source port Sequence number Acknowledgement number Reserved Urgent Pointer Padding Windows. Options Each TCP header has 10 required fields totaling 20 bytes (160 lits) communication end points for sending I receiving. The data offset stores the total size of a TCP header in multiples of 4 bytes. YDP Sowice fort UDP length Destination bost data. Because vop is significantly more limited in capability than TCP its hardness are much smaller VDP inserts header files into its message stream as follows: 2020/11/09 11:45

- source and destination UDP posts are communication enapoints.

- The length field in UDP represents total size of datagram which ranges from 8 bytes to above 6500 bytes. Thus the packets received are analysed using 2020/11/09 11:45