Advanced Computer Networks: Assignment #2

ARCHANA B S

CONTENTS	Advanced Computer Networks : Assignment #2	ARCHANA B S
Contents		
Problem 1		3
Problem 2		5
Problem 3		7

## Problem 1

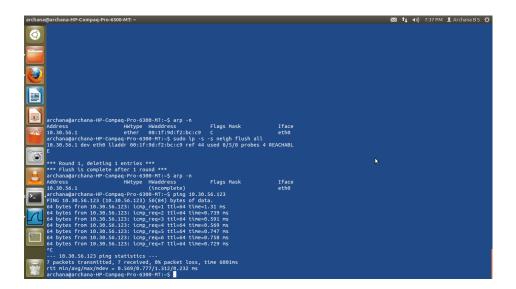
SNIFFER CAPTURE: LOCAL IP

Install wireshark. Start sniffing packets. Ping IP. Analyze. Save file.

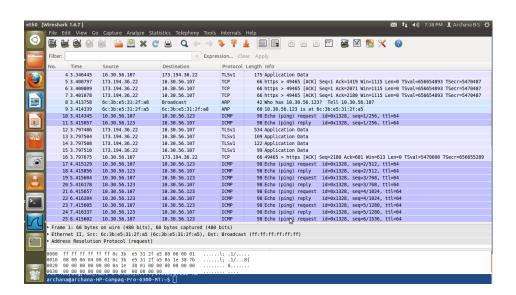
Clear the ARP table.

Commands : arp -n sudo ip -s -s neigh flush all

PING to Ip.



Screenshots from WIRESHARK.



```
■ 10 3.749642 6c:3b:e5:31:2f:a8 Broadcast ARP 42 Who has 10.30.56.1237 Tell 10.30.56.107

Frame 10: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)

Ethernet II, Src: 6c:3b:e5:31:2f:a8 (6c:3b:e5:31:2f:a8), Dst: Broadcast (ff:ff:ff:ff:ff:ff:ff)

Address Resolution Protocol (request)

Graph of the first firs
```

## Problem 2

SNIFFER CAPTURE :PING 4.2.2.1.

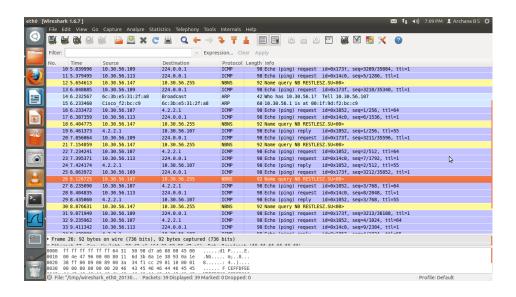
Open sniffer capture. Ping 4.2.2.1 Save file.

Clear arp.

PING 4.2.2.1

```
😑 📵 archana@archana-HP-Compaq-Pro-6300-MT: ~
archana@archana-HP-Compaq-Pro-6300-MT:~$ arp -n
Address
                             HWtype HWaddress
                                                               Flags Mask
                                                                                         Iface
10.30.56.1
                                       (incomplete)
                                                                                         eth0
archana@archana-HP-Compaq-Pro-6300-MT:~$ ping 4.2.2.1
PING 4.2.2.1 (4.2.2.1) 56(84) bytes of data.
64 bytes from 4.2.2.1: icmp_req=1 ttl=55 time=211 ms
64 bytes from 4.2.2.1: icmp_req=2 ttl=55 time=211 ms
64 bytes from 4.2.2.1: icmp_req=3 ttl=55 time=186 ms
64 bytes from 4.2.2.1: icmp_req=4 ttl=55 time=189 ms
 --- 4.2.2.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3001ms rtt min/avg/max/mdev = 186.910/199.900/211.630/11.757 ms
archana@archana-HP-Compaq-Pro-6300-MT:~$ clear
archana@archana-HP-Compaq-Pro-6300-MT:~$ clear
```

Screenshots from WIRESHARK.



## Problem 3

SNIFFER CAPTURE : MULTICAST

PING 224.0.0.1

Screenshots from WIRESHARK.

