	•	· Networking Principles ressing and monitoring
Name:		
ive your	self an IP address	
a) 🗌 S	uccessfully changed IP address	3
h) Pecoro	the ping results	
b) Record	IP address % lost	Min/avg/max
Examine t	he ARP cache	
a) How m	any IP/MAC address entries are	in your ARP cache?
•	he ARP cache have any addres nk they are there.	ses that you did not ping? If so, explain
•		ses that you did not ping? If so, explain
•		ses that you did not ping? If so, explain
you thi		
you thi	nk they are there.	

Ethernet II	
i) Destination:	Source:
Address Resolution Protocol	
ii) Sender MAC:	Target MAC:
Sender IP:	Target IP:
ARP Reply (Make sure the Et	thernet II Destination is your MAC address)
Ethernet II	
i) Destination:	Source:
Address Resolution Protocol	
ii) Sender MAC:	Target MAC:
Sender IP:	Target IP:
thernet frame type (look in the mexadecimal number  ARP packet:	niddle panel for this). Give both the name and the
ICMP (ping) packet:	
The bottom border of the Wires selected in the middle panel.	shark window shows the size in bytes of the item
What is the total number of	bytes in the frame for a ping packet? (click on Fran

		How many bytes are in the Ethernet header? (click on Ethernet II)
		How many bytes are in the IP header? (click on Internet Protocol Version 4)
		How many bytes are in the payload? (click on Internet Control Message Protocol)
E	e) [	Check the ARP cache again and describe anything that has changed.
		nerate some more network traffic  Vhat messages are displayed in the terminal?
	V	Vhat kind of packets are generated (name shown in the Protocol column)?
	C	Check the Time column and estimate how often ARP requests are sent.
t	o)	Describe the output of the ping command and the contents of the packet trace.

## 5. Duplicate IP addresses

a)	Are the ping packets successfully sent and received?
	Describe the packets captured during the pings.
	Describe where you think the request and reply ping packets are going.
b)	Describe what happens when a third computer pings the duplicate IP address.
6. S	cript to restart the NIC
Sho	w the command you used to restart the interface: