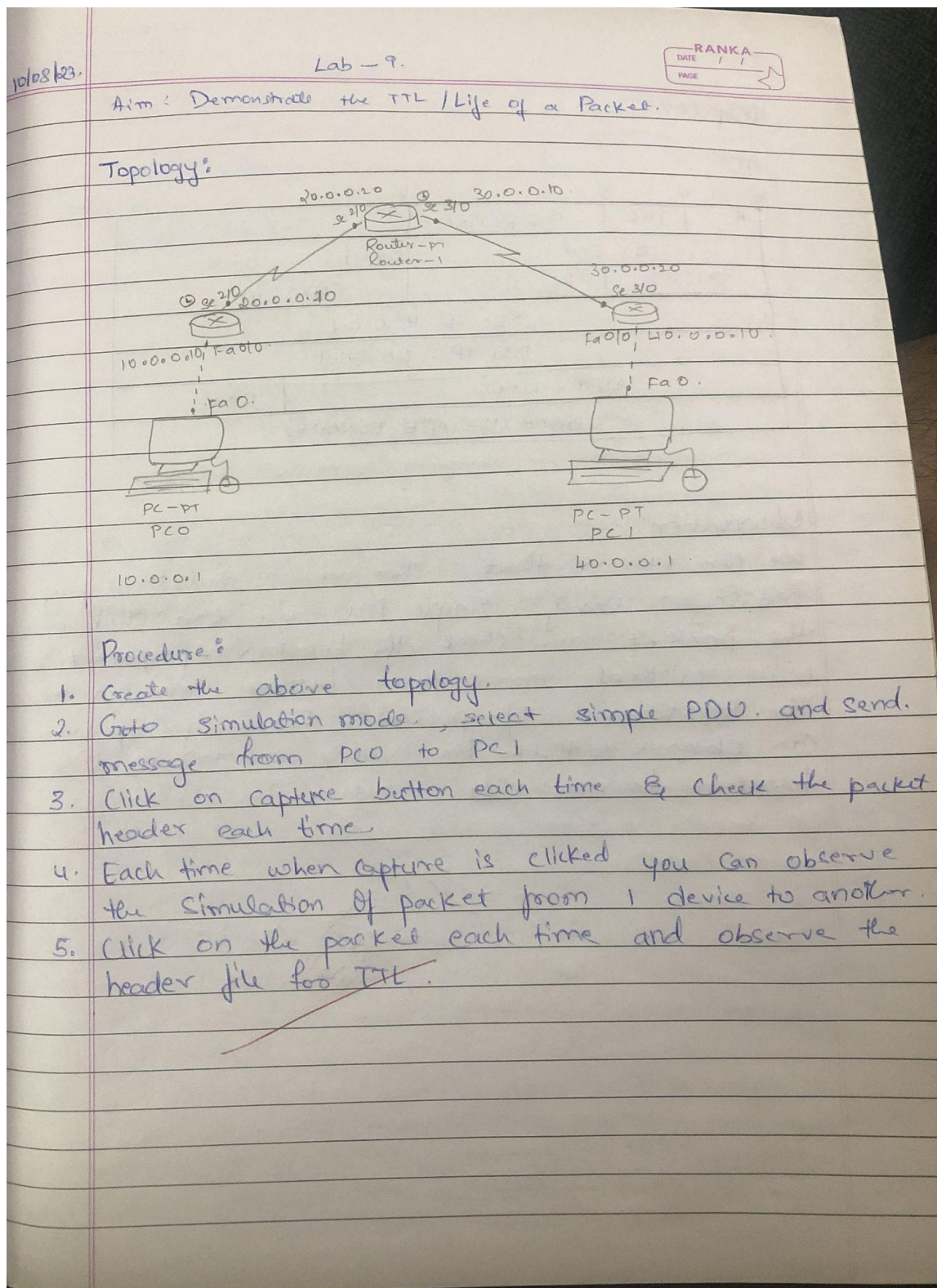
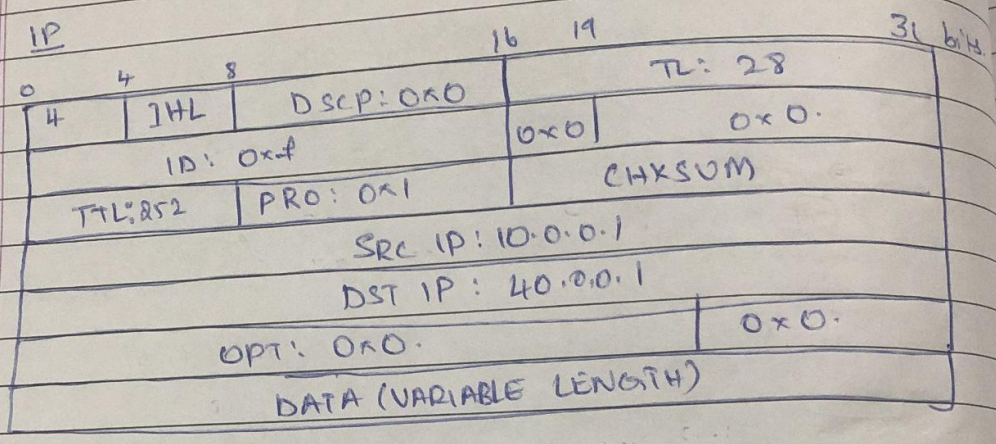


Aim: Demonstrate the TTL / Life of a Packet

Observation:



Output:

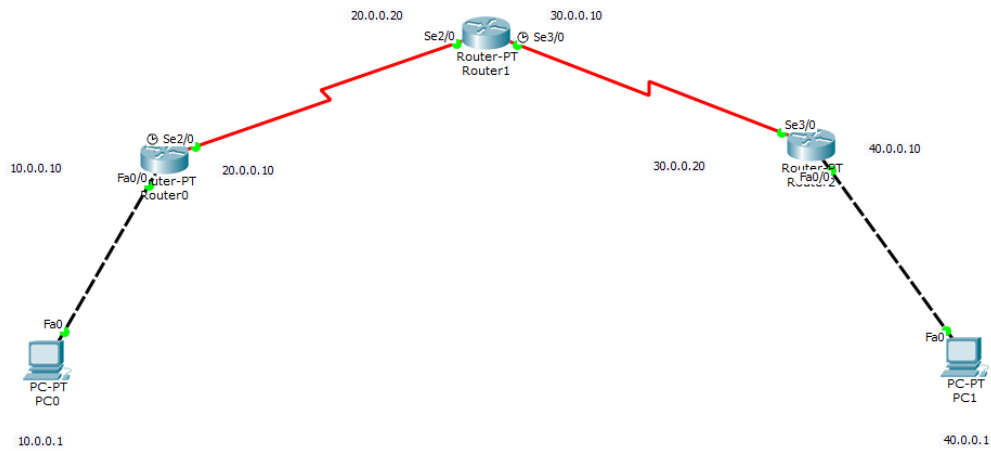


Observation:

We can observe that when we simulate a ping message using simple PDU we can click on the packet and check the headers of packet when clicked on capture button you can see the transition of packet. For every hop we can observe that the value of TTL in IP header decreases by 1 value.

11/8/2023

Topology:



Output:

PDU Information at Device: PC0

OSI Model Outbound PDU Details

PDU Formats

Ethernet II

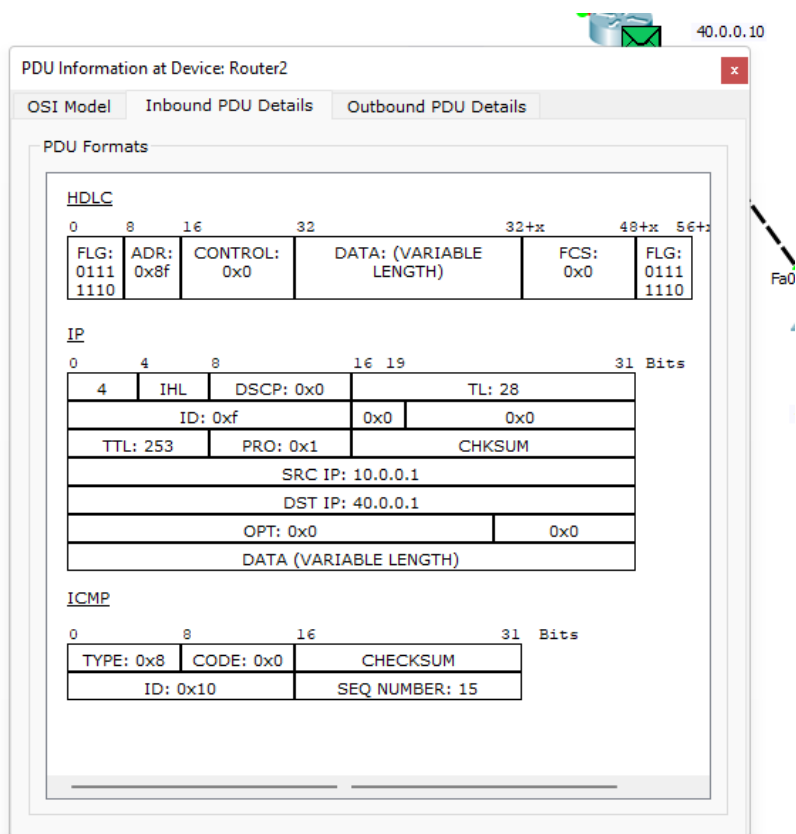
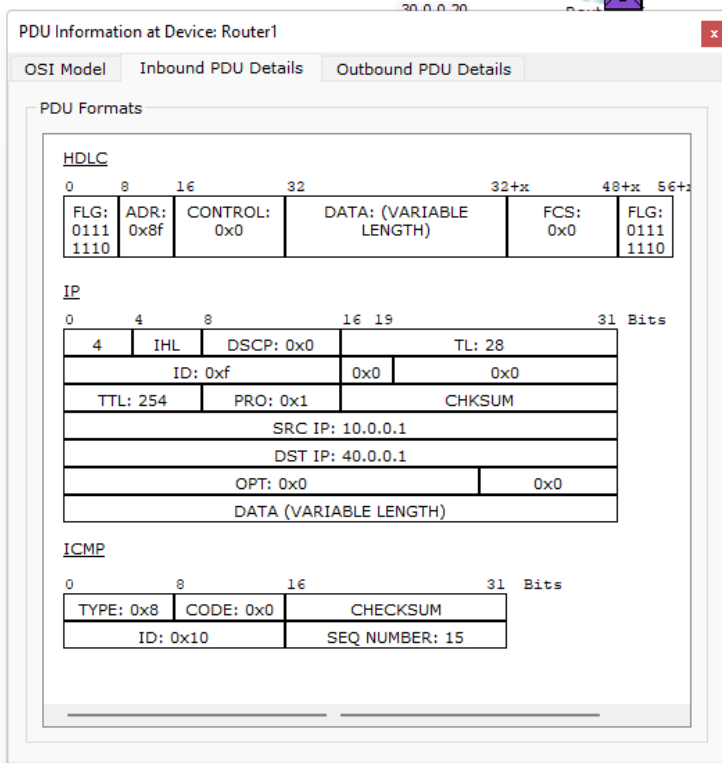
0		4		8		14		19		Bytes	
PREAMBLE: 101010...1011				DEST MAC: 0090.2137.34B0				SRC MAC: 00D0.BC33.1653			
TYPE: 0x800		DATA (VARIABLE LENGTH)						FCS: 0x0			

IP

0		4		8		16		19		31		Bits	
4		IHL		DSCP: 0x0		TL: 28							
ID: 0x10				0x0		0x0							
TTL: 255				PRO: 0x1		CHKSUM							
SRC IP: 10.0.0.1													
DST IP: 40.0.0.1													
OPT: 0x0										0x0			
DATA (VARIABLE LENGTH)													

ICMP

0		8		16		31		Bits	



PDU Information at Device: PC1

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

Ethernet II

0	4	8	14	19	Bytes
PREAMBLE: 101010...1011		DEST MAC: 00E0.A3A9.ECA7		SRC MAC: 0001.96CB.E558	
TYPE: 0x800		DATA (VARIABLE LENGTH)		FCS: 0x0	

IP

0	4	8	16	19	31	Bits	
4		IHL		DSCP: 0x0		TL: 28	
ID: 0xf				0x0		0x0	
TTL: 252		PRO: 0x1		CHKSUM			
SRC IP: 10.0.0.1							
DST IP: 40.0.0.1							
OPT: 0x0					0x0		
DATA (VARIABLE LENGTH)							

ICMP

0	8	16	31	Bits	
TYPE: 0x8		CODE: 0x0		CHECKSUM	
ID: 0x10		SEQ NUMBER: 15			

Fat