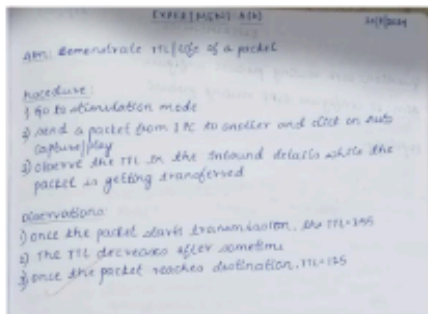


EXPERIMENT-6

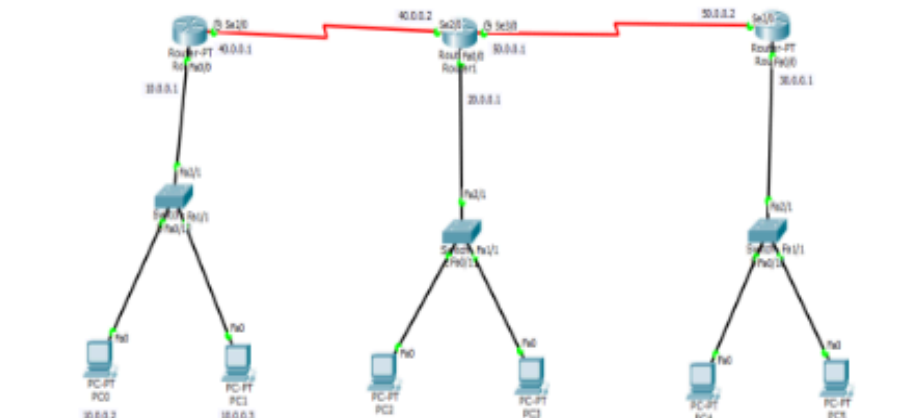
Question 6:

Demonstrate the TTL/ Life of a Packet

Observation writeup images:



Screenshot of the topology:



Screenshot of the output:

PDU Information at Device: Router0

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

ETHERNET II

0	4	8	14	19	Bytes
PREAMBLE: 101010...1011		DEST MAC: 00D0.8A48.3929		SRC MAC: 0005.5E88.B652	
TYPE: 0x800		DATA (VARIABLE LENGTH)		FCS: 0x0	

IP

0	4	8	16	19	31	Bits	
4		IHL		DSCP: 0x0		TL: 28	
ID: 0x2				0x0		0x0	
TTL: 255				PRO: 0x1		CHKSUM	
SRC IP: 10.0.0.3							
DST IP: 30.0.0.2							
OPT: 0x0						0x0	
DATA (VARIABLE LENGTH)							

ICMP

0	8	16	31	Bits	
TYPE: 0x0		CODE: 0x0		CHECKSUM	
ID: 0x3		SEQ NUMBER: 2			

PDU Information at Device: Router1

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

HDLC

0	8	16	32	32+x	48+x	56+
FLAG: 0111 1110	ADR: 0x8f	CONTROL: 0x0	DATA: (VARIABLE LENGTH)	FCS: 0x0	FLAG: 0111 1110	

IP

0	4	8	16	19	31	Bits
4	IHL	DSCP: 0x0	TL: 28			
ID: 0x9			0x0	0x0		
TTL: 127		PRO: 0x1	CHKSUM			
SRC IP: 30.0.0.2						
DST IP: 10.0.0.3						
OPT: 0x0					0x0	
DATA (VARIABLE LENGTH)						

ICMP

0	8	16	31	Bits
TYPE: 0x0		CODE: 0x0	CHECKSUM	
ID: 0x3		SEQ NUMBER: 2		