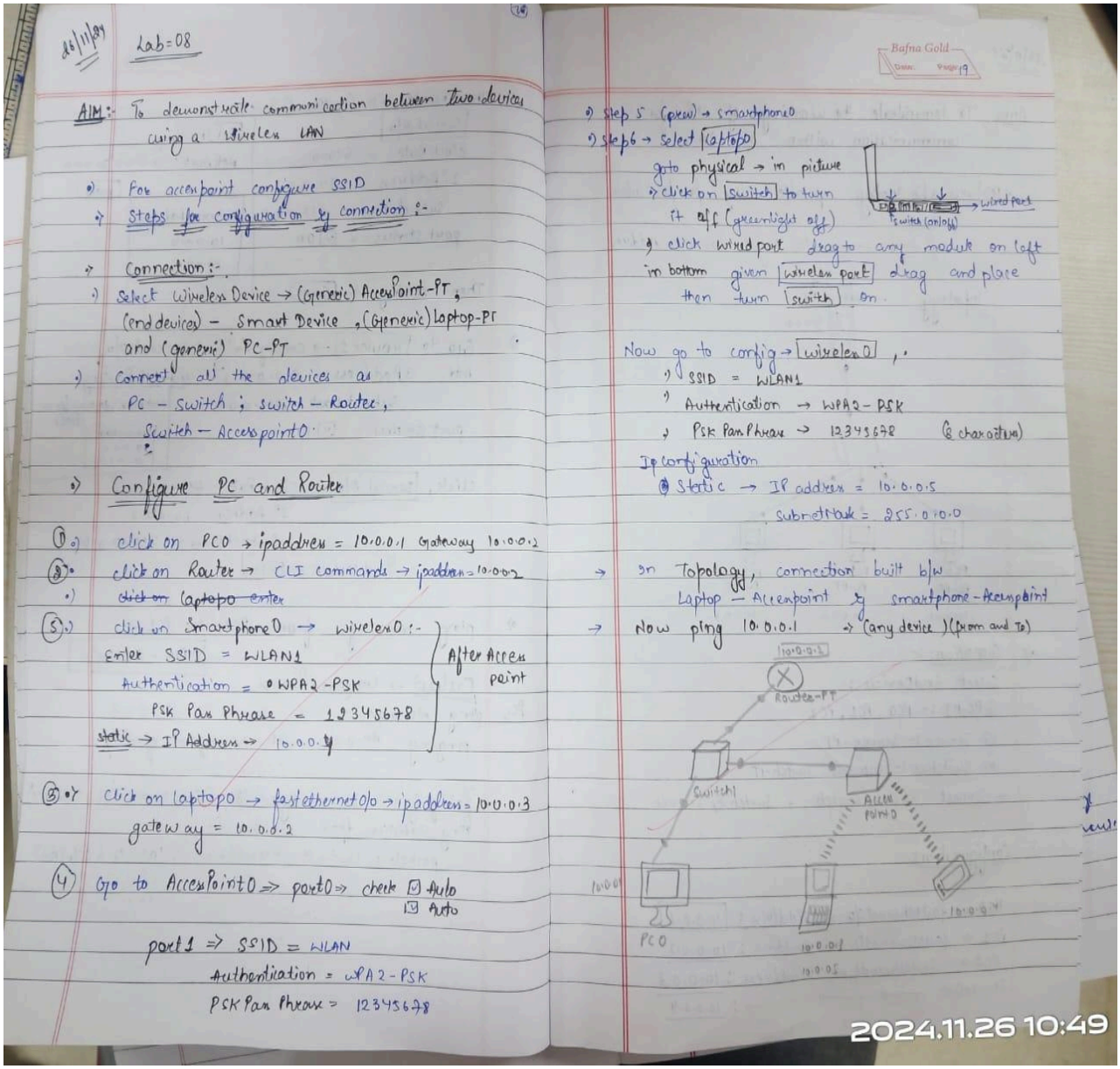
NAME : MANVI SHARMA USN: 1BM22CS149

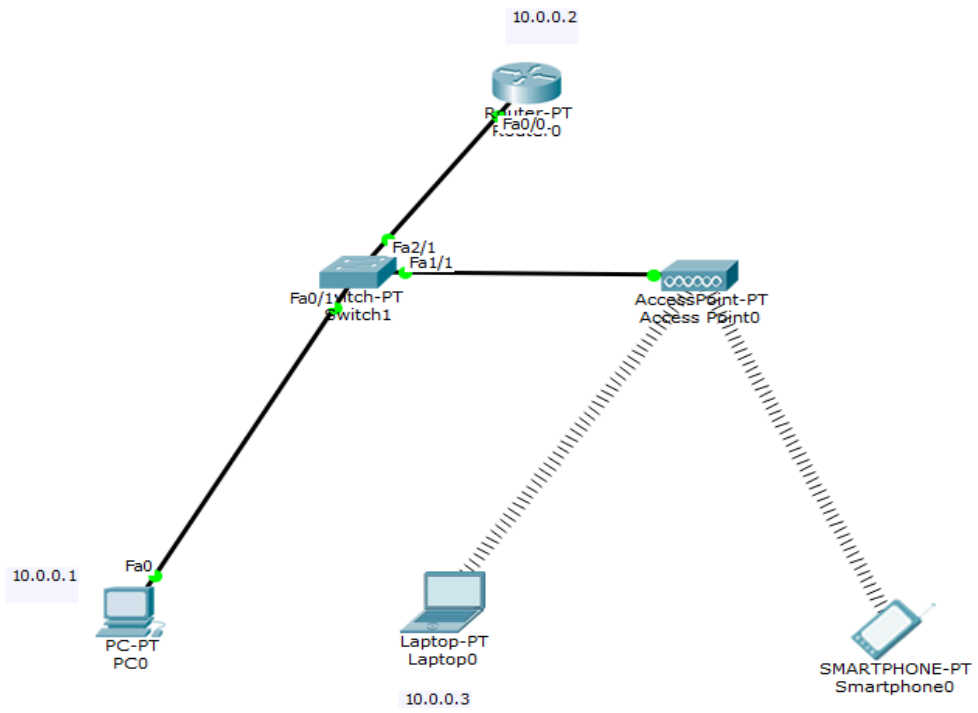
CN LAB 8

AIM: TO DEMONSTRATE COMMUNICATION B/W TWO DEVICES USING A WIRELESS LAN

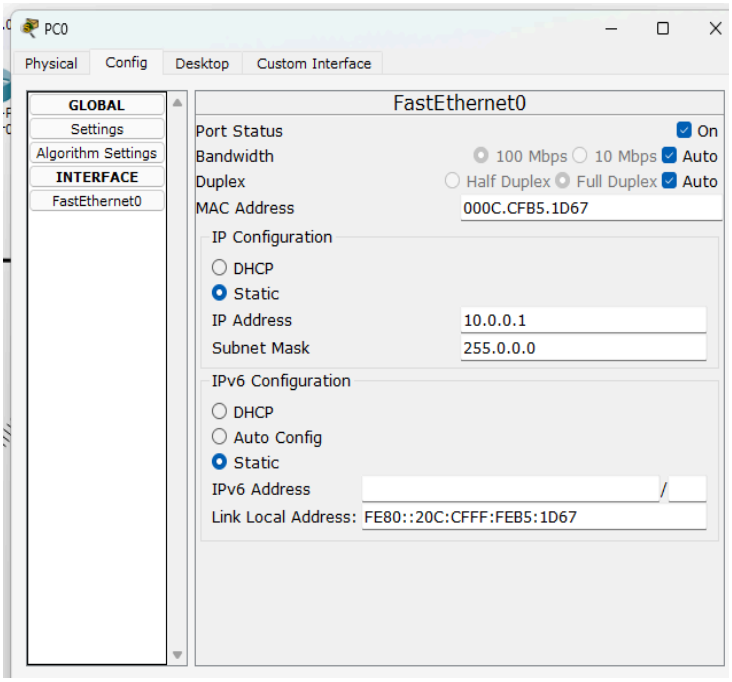
OBSERVATION:



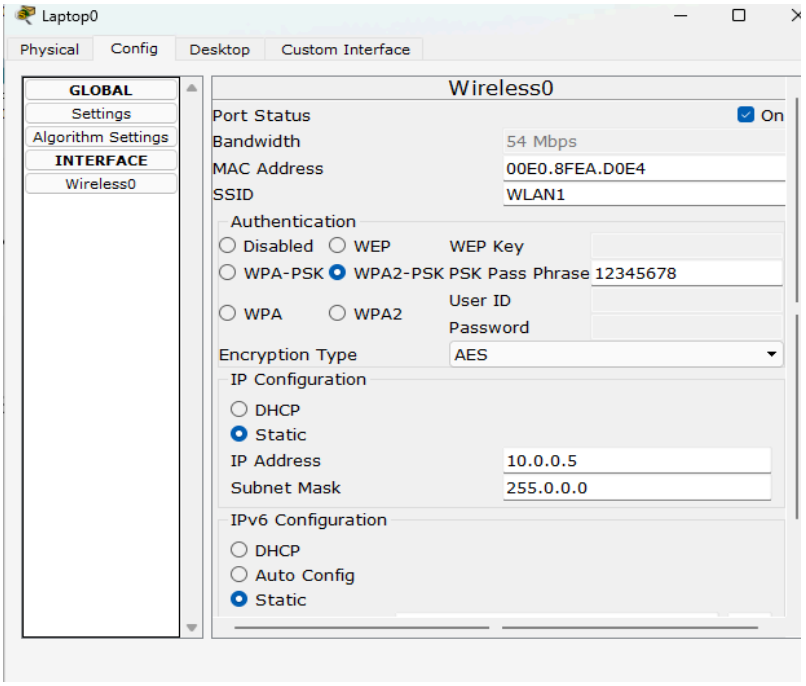
TOPOLOGY:



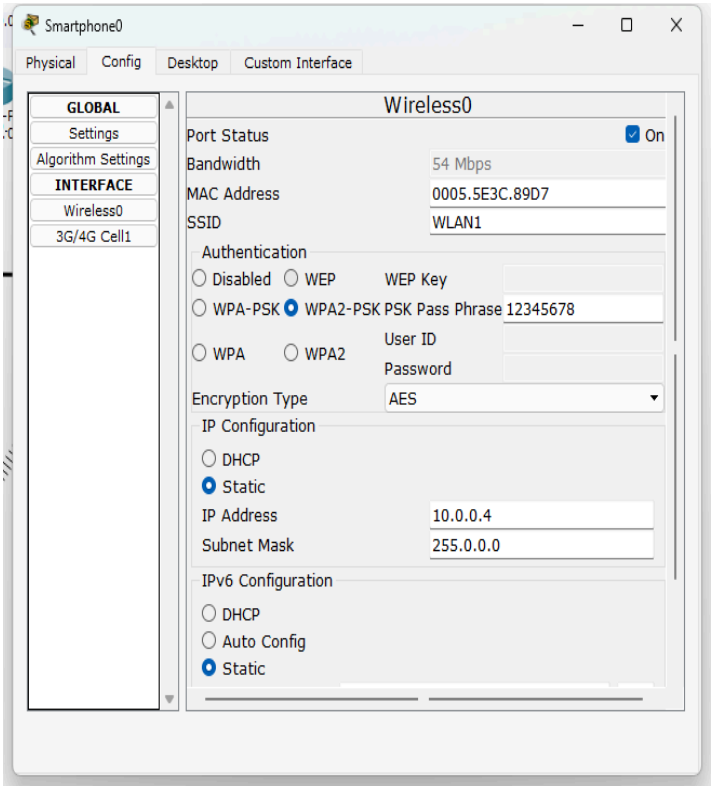
PC0 CONFIGURATION:



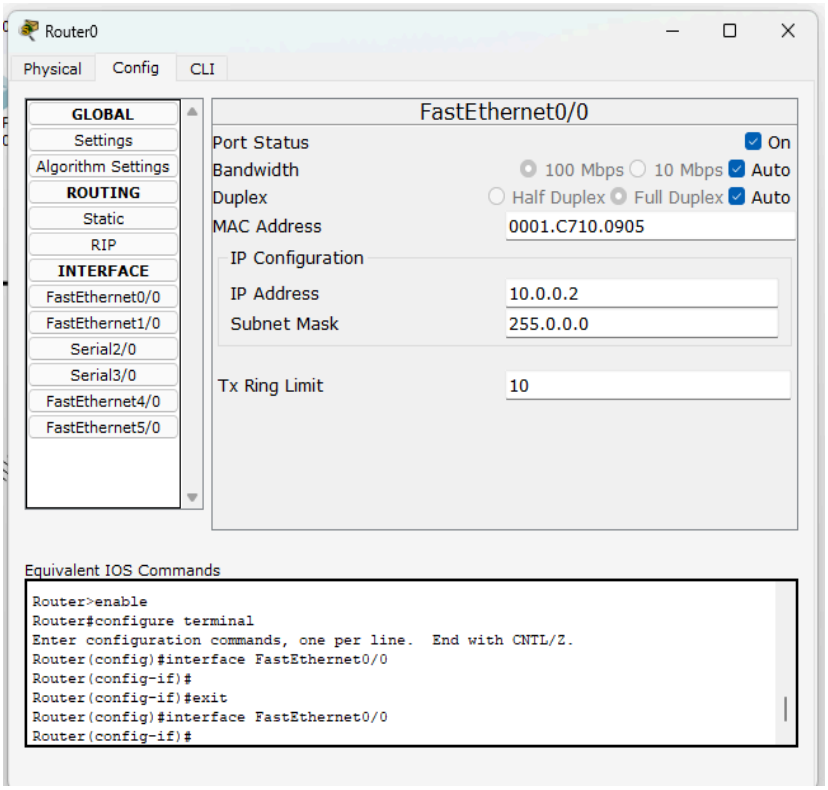
LAPTOP CONFIGURATION:



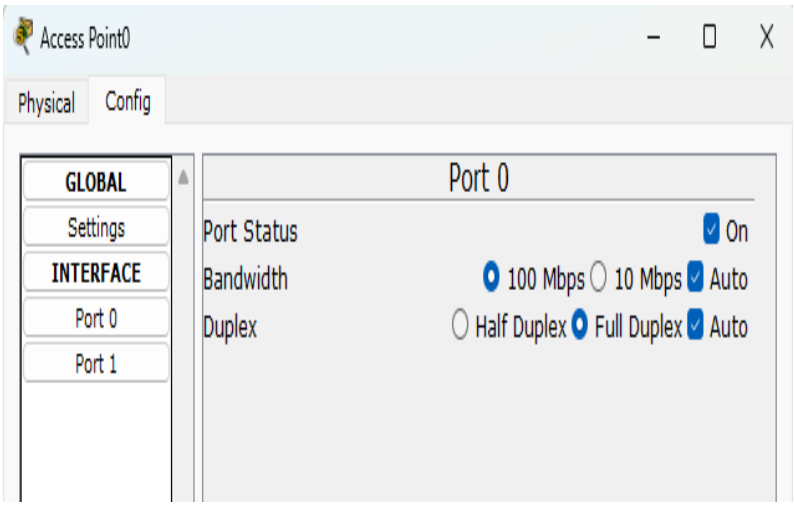
SMART-PHONE CONFIGURATION:



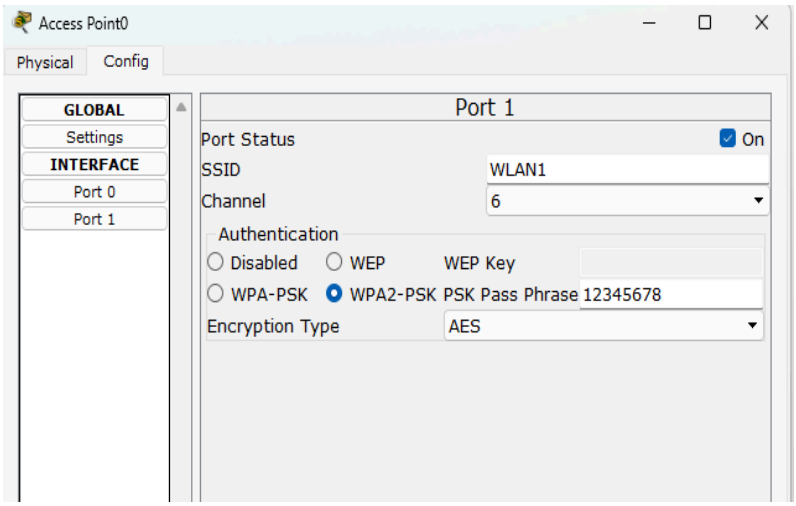
ROUTER0 CONFIGURATION:



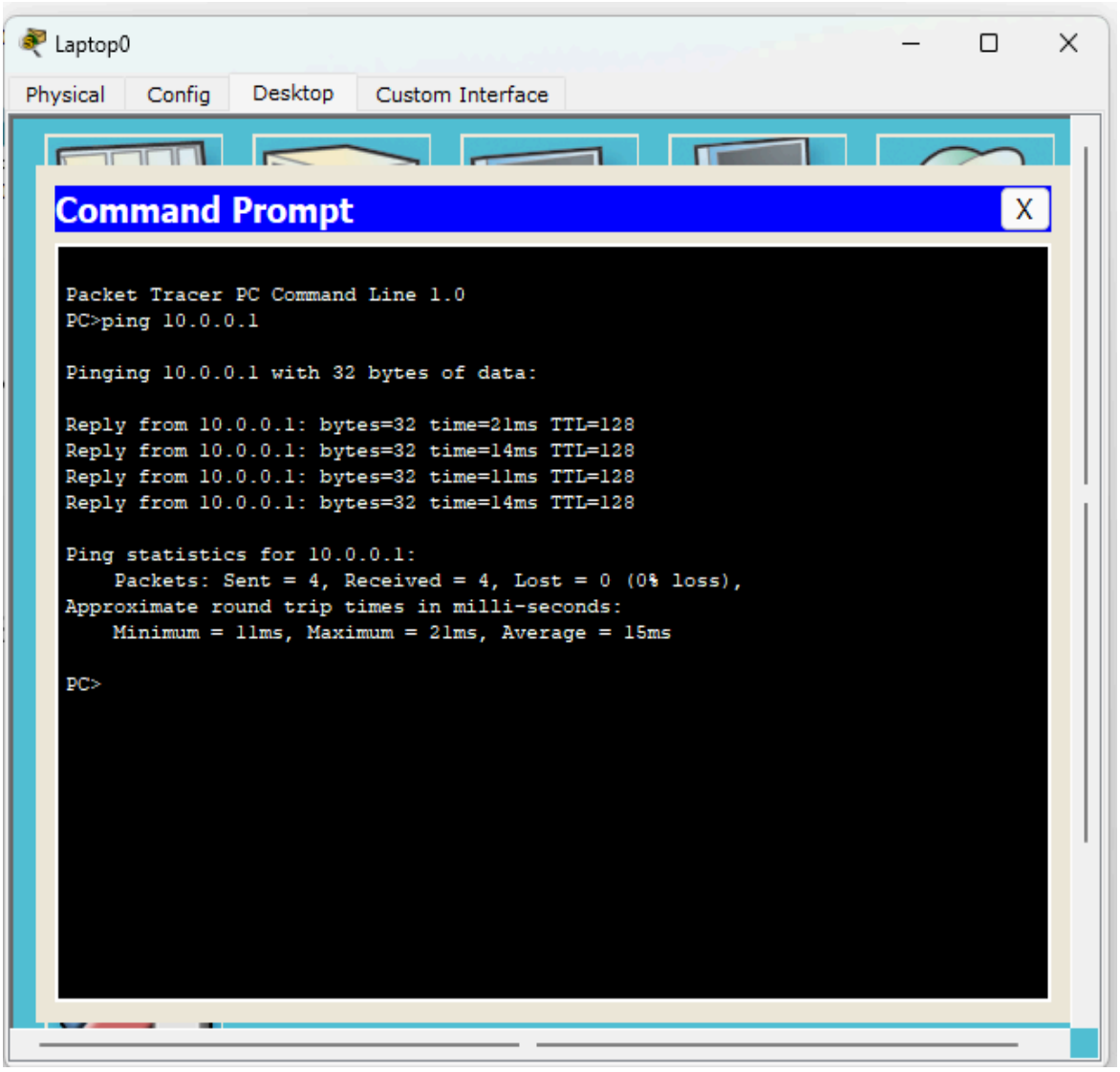
ACCESS-POINT PORT0



ACCESS-POINT PORT1

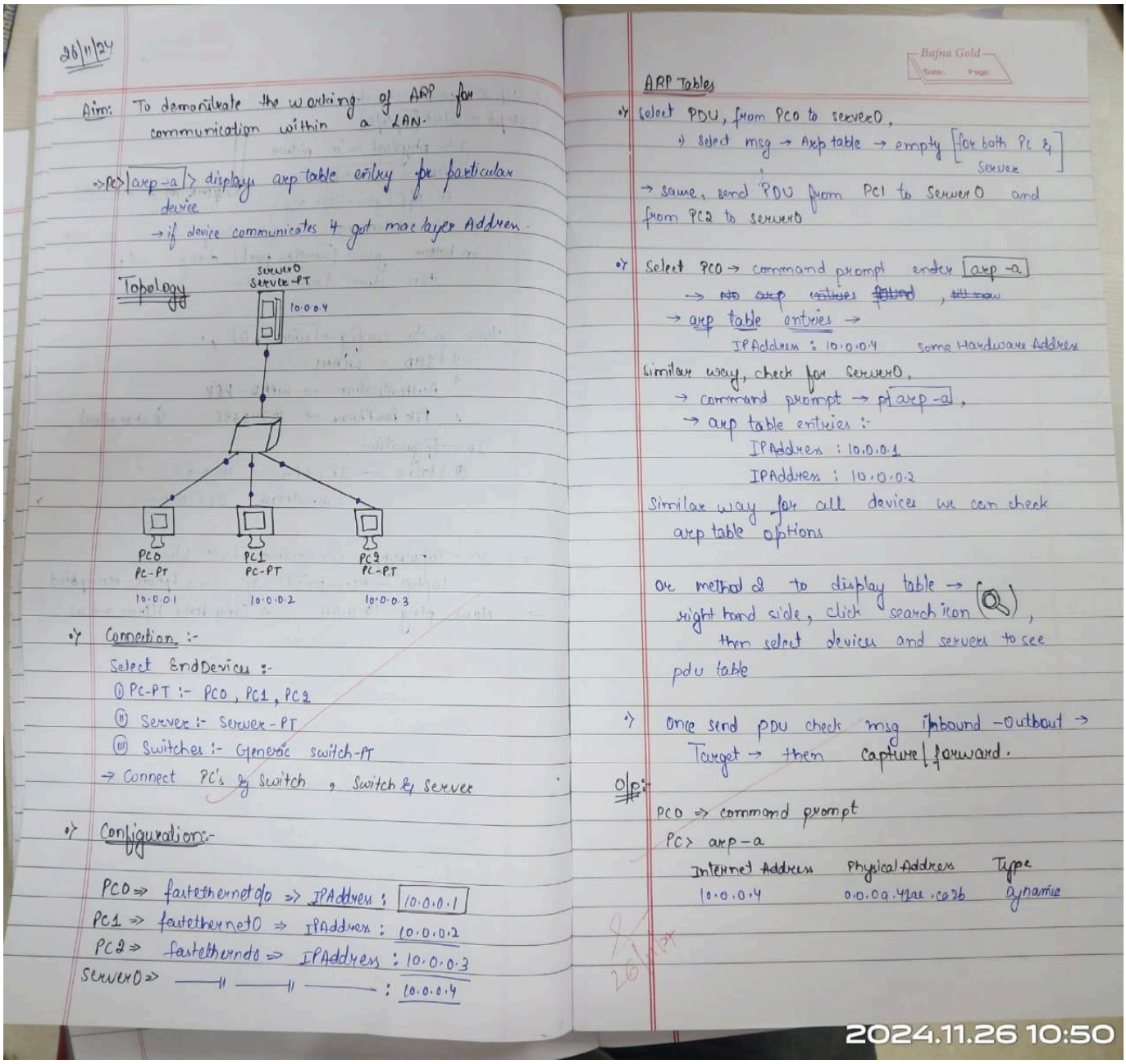


PING FROM LAPTOP TO PC

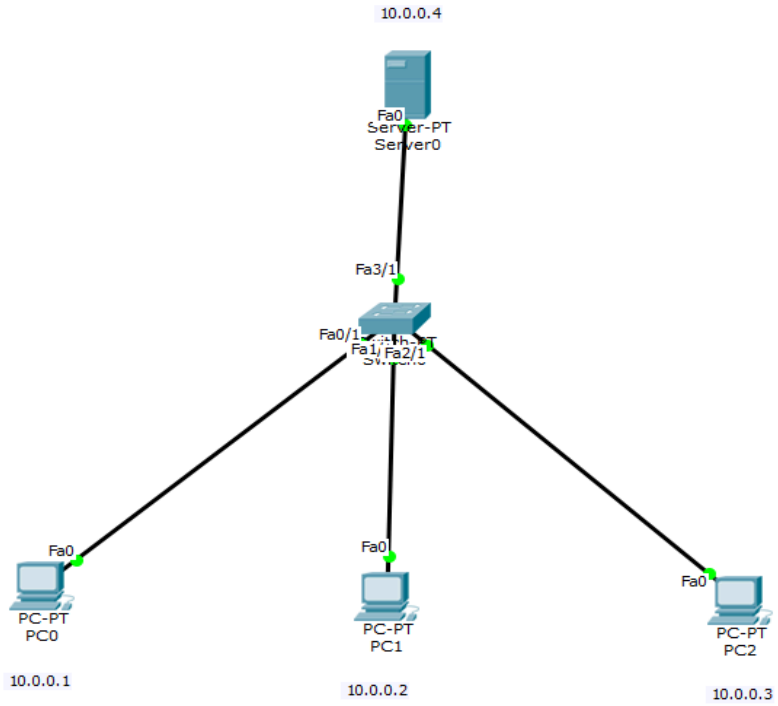


AIM: TO DEMONSTRATE THE WORKING OF ARP FOR COMMUNICATION WITHIN A LAN

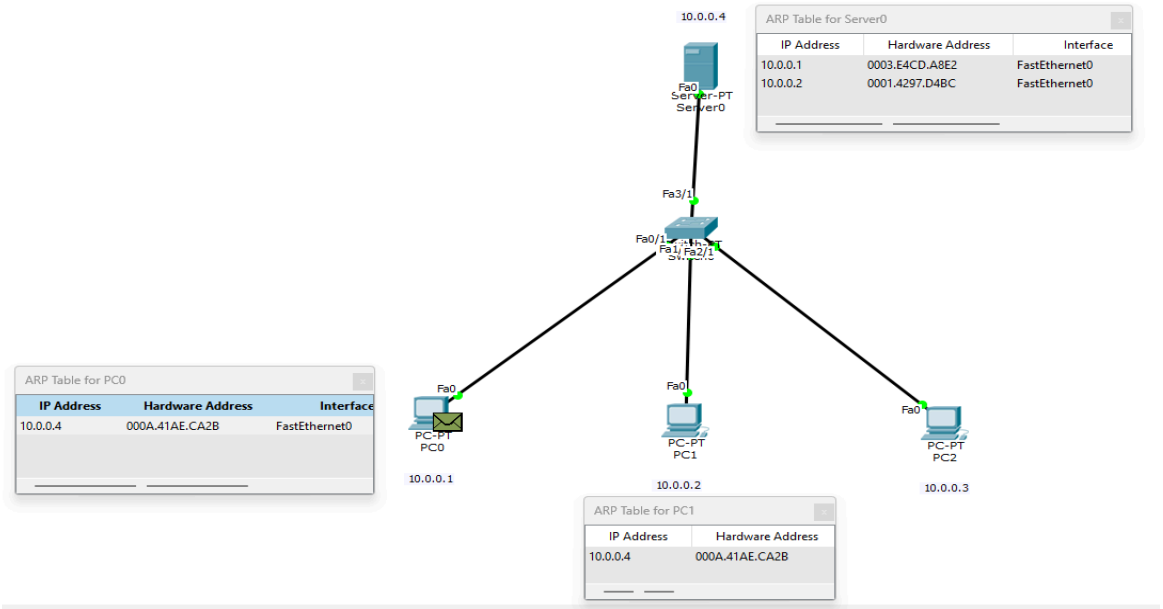
OBSERVATION:



TOPOLOGY:



ARP TABLES:



PC0 INBOUND

PDU Information at Device: PC0

OSI Model | Inbound PDU Details

PDU Formats

Ethernet II

0	4	8	14	19 Byt
PREAMBLE: 101010...1011		DEST MAC: 0003.E4CD.A8E2	SRC MAC: 000A.41AE.CA2B	
TYPE: 0x800	DATA (VARIABLE LENGTH)		FCS: 0x0	

IP

0	4	8	16 19	31 Bits
4	IHL	DSCP: 0x0	TL: 28	
ID: 0x6		0x0	0x0	
TTL: 128		PRO: 0x1	CHKSUM	
SRC IP: 10.0.0.4				
DST IP: 10.0.0.1				
OPT: 0x0			0x0	
DATA (VARIABLE LENGTH)				

ICMP

0	8	16	31 Bits
TYPE: 0x0	CODE: 0x0	CHECKSUM	
ID: 0x6		SEQ NUMBER: 5	

PC0 OUTBOUND

PDU Information at Device: PC0

OSI Model | Outbound PDU Details

PDU Formats

0	4	8	14	19 Byt
PREAMBLE: 101010...1011		DEST MAC: 000A.41AE.CA2B	SRC MAC: 0003.E4CD.A8E2	
TYPE: 0x800	DATA (VARIABLE LENGTH)		FCS: 0x0	

IP

0	4	8	16 19	31 Bits
4	IHL	DSCP: 0x0	TL: 28	
ID: 0x5		0x0	0x0	
TTL: 255		PRO: 0x1	CHKSUM	
SRC IP: 10.0.0.1				
DST IP: 10.0.0.4				
OPT: 0x0			0x0	
DATA (VARIABLE LENGTH)				

ICMP

0	8	16	31 Bits
TYPE: 0x8	CODE: 0x0	CHECKSUM	
ID: 0x6		SEQ NUMBER: 5	

PC1 INBOUND

PDU Information at Device: Server0

OSI Model | Inbound PDU Details | Outbound PDU Details

PDU Formats

Ethernet II

0	4	8	14	19 Bytes
PREAMBLE: 101010...1011		DEST MAC: 000A.41AE.CA2B	SRC MAC: 0001.4297.D4BC	
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: 10.0.0.2				
DST IP: 10.0.0.4				
OPT: 0x0			0x0	
DATA (VARIABLE LENGTH)				

ICMP

0	8	16	31 Bits
TYPE: 0x8	CODE: 0x0	CHECKSUM	
ID: 0x3		SEQ NUMBER: 2	

PC1 OUTBOUND

PDU Information at Device: Server0

OSI Model | Inbound PDU Details | Outbound PDU Details

PDU Formats

Ethernet II

0	4	8	14	19 Bytes
PREAMBLE: 101010...1011		DEST MAC: 0001.4297.D4BC	SRC MAC: 000A.41AE.CA2B	
TYPE: 0x800	DATA (VARIABLE LENGTH)		FCS: 0x0	

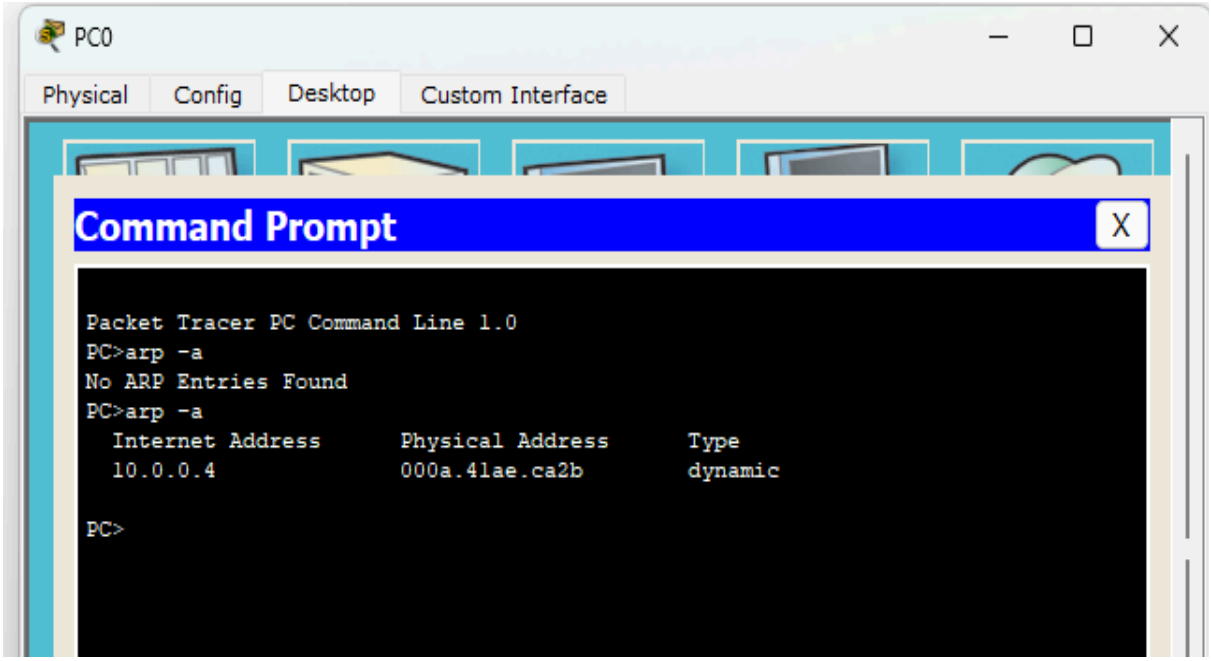
IP

0	4	8	16 19	31 Bits
4	IHL	DSCP: 0x0	TL: 28	
ID: 0x7		0x0	0x0	
TTL: 128		PRO: 0x1	CHKSUM	
SRC IP: 10.0.0.4				
DST IP: 10.0.0.2				
OPT: 0x0			0x0	
DATA (VARIABLE LENGTH)				

ICMP

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

PING FROM PC0



PING FROM SERVER0