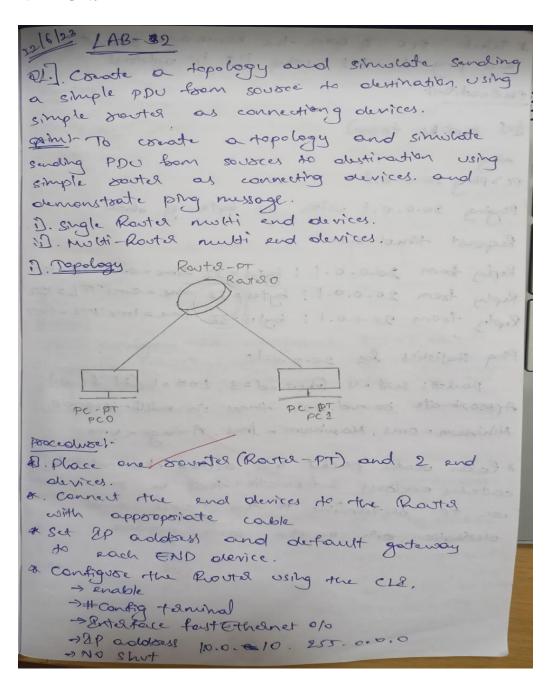
LAB 2

Configure IP address to routers (one and three) in packet tracer. Explore the following messages: ping responses, destination unreachable, request timed out, reply.

OBSERVATION:



& Select PCO & open the command prompt and ping the PEA way its ip address Okavation1bet outles form

phone relicionation of usesses mind PC> ping 20.0.0.1

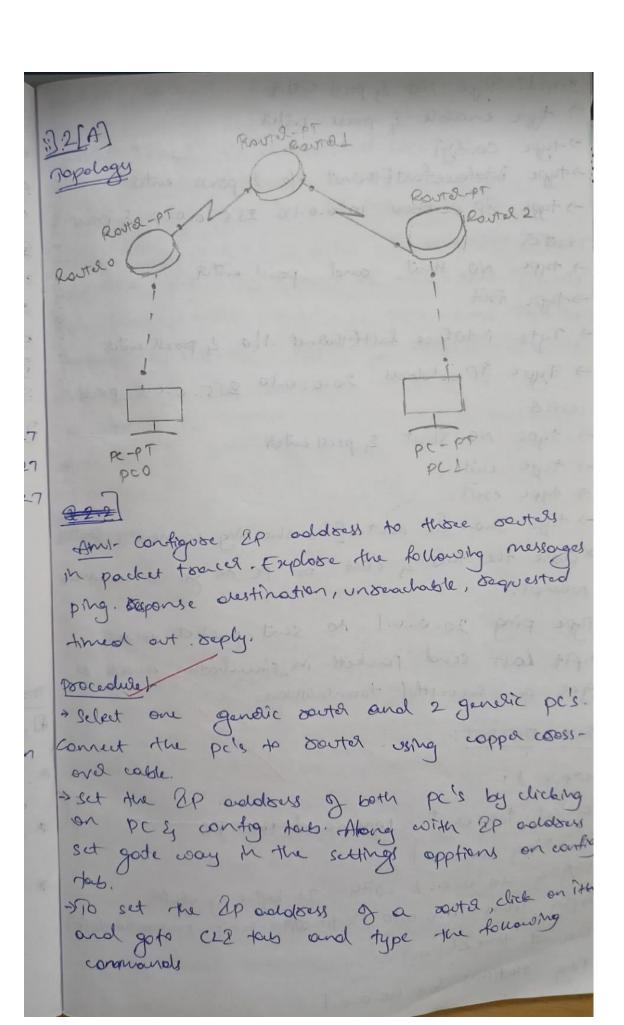
Prigney 20.0.0.1 with 32 bytes of datal Request timed out to be in

Reply from 20.0.0.1: bytes = 32 time = oms TTL = 127 Reply from 20.0.0.1! bytes 232 time 2 oms TT L 2127 Reply from 20.0.0.11 byty=32 threalmy TTL-127

Ping statistics has 20.0.0.1

padet: set ay Received 23, Lost =1 (25% Loss) Approximate sound top Annes in milli-seconds! Miliamon a oms, Masumum a Ims, Avelage - oms.

& Each data packet sent access the netrook contains address information that a scores can use to detarine if the source and destination on the same network.

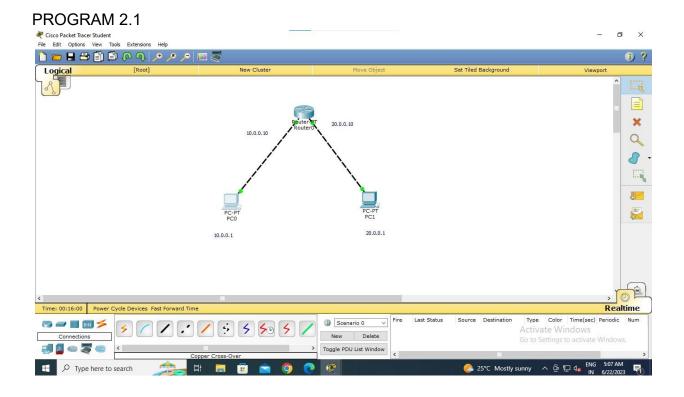


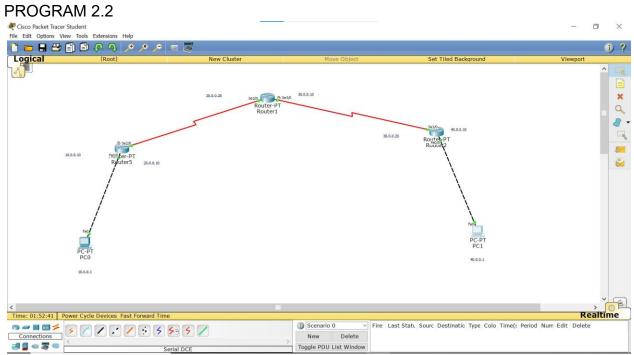
& Step 11- Type NO & poess ender. -> type enable & poess enter Extype interacefastEthand of Expossis enter. (1-) type 20 another 10.0.0.10 255-0.0.0 & pory -> type NO shut and posses entry. 1) - type Frut. -> Tyte interface fastEthanet 110 4 posess enter -> Fype 2P address 20-0.0.10 255.0.0.0 pour Btw -> type No shut & poress enter 1-) type exit & -> type exit -> type show 20 route [bor showing connection states eclose the tab & click on pc to go to command prompt. Type ping 20.0.0. No sent packet across. + At last send packets in simulation mode & get a successful tounswission. PRNG OUTPUT: - butput 1 1-Packet traces PC command line 1.0 PC > Ping 40.0.0.1 prograg 40.0.0.1 with 32 bytes of data Reply from 10.0.0.10 Destination nost unoreacharble (3) Pmg statistics dos us.o.o.)

padett 1 sent = 4 Received = 0 Cost = 4 (100% loss) corpor 2 packet Trace Pc command Line: 1.0. PC) ping 10.0.0.1 pinging 10-0.0.1 with 32 bytes of data Reply from 10.0.0.1 & bytes = 32 time=2ms. TTL=125 Reply from 10.0.0.1; bytes = 32 thre= 8 ms TTL=125 Reply from 10.0.0.1: bytes=32 time=2ms TTL=125 Reply from 10.0.0.1 : bytes = 32 Ame= 2ms TTL=125 ping statistics for 10.0.0.1 packets & sent 24 Received =4 Lost =0 (0 % Loss). Approximate sound top times in ins hin 22ms Max = 8ms Avdage 23ms 15. Observation!

-> len proglam 2.1 when we ping the obestitate address we get allocated with 32 bytes. In this first 8 bytes are used to learn about the souted and their address. Bust bytes are used to sending packets to destination addoors. Then again it we ping. all bytes are used too message sending and there will be no timed-out mestage. -> In program 2-2 when the router doesn't know about the semanting adopsess and we plug a mestage use get host morachable message and the souths have here access, knowledge about other addresses, melsage will be sent successfully

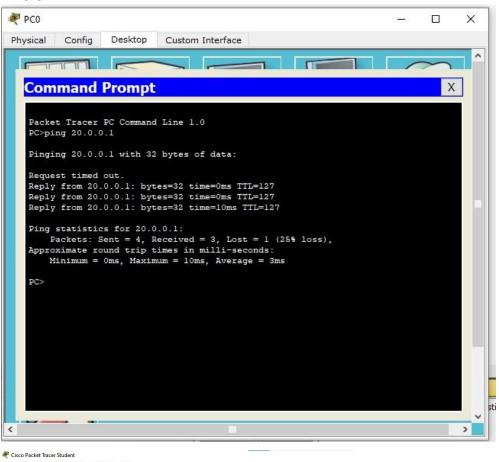
TOPOLOGY:

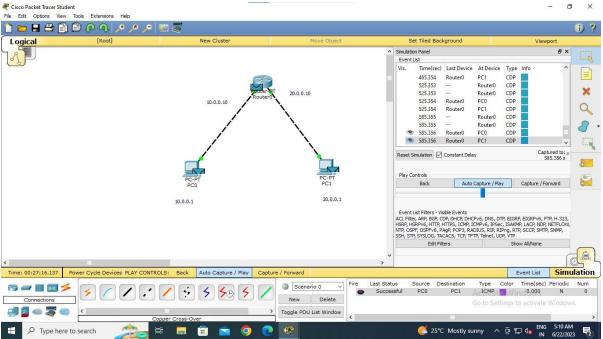




OUTPUT:

PROGRAM 2.1





PROGRAM 2.2

