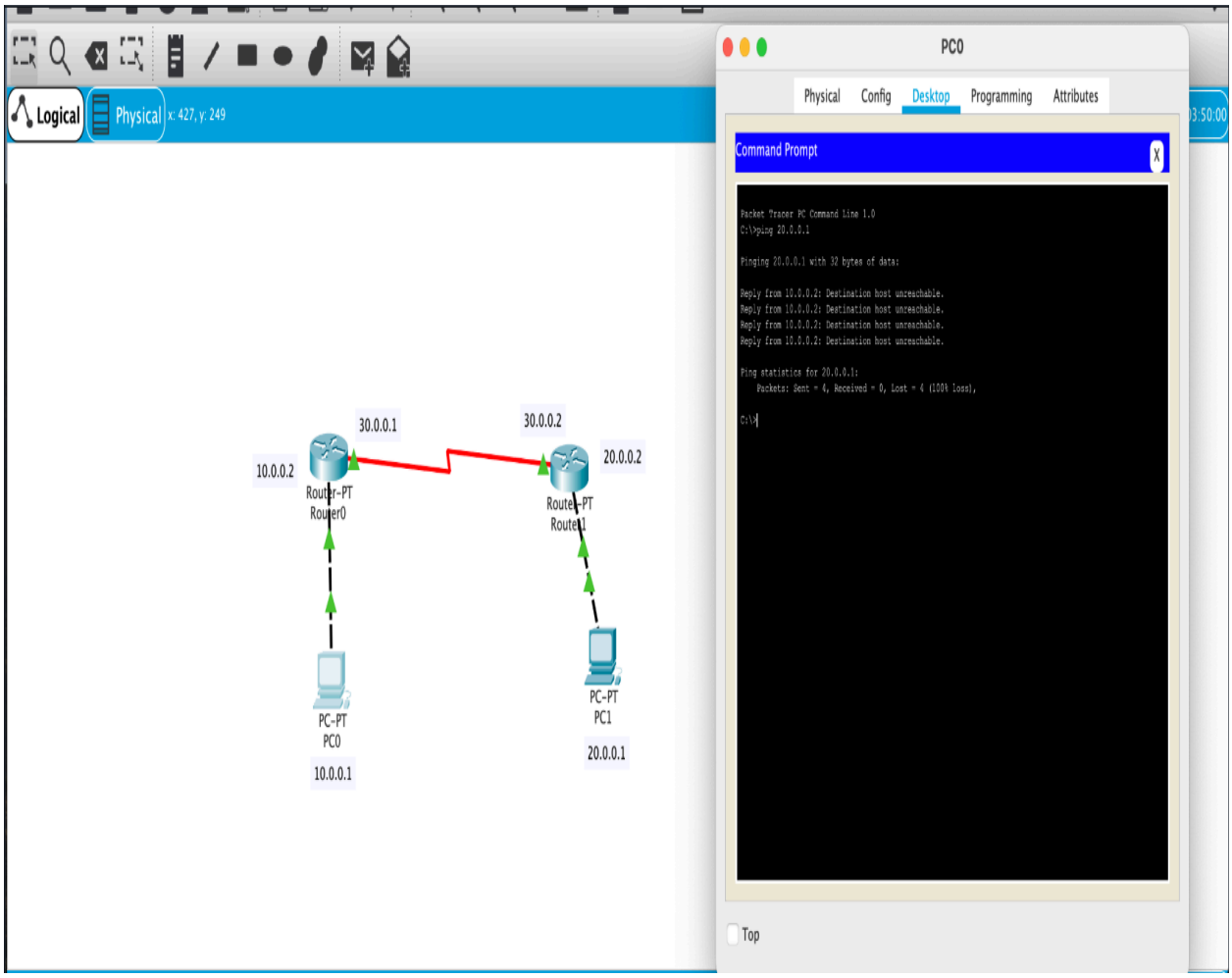
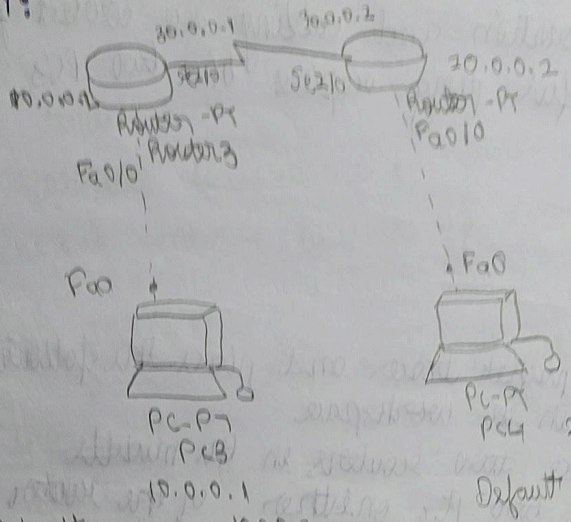

Logical
Physical
x: 427, y: 249
30.0.0.1
30.0.0.2
10.0.0.2
20.0.0.2
Router-PT
Router0
Router-PT
Router1
PC-PT
PC0
10.0.0.1
PC-PT
PC1
20.0.0.1
PC0
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Reply from 10.0.0.2: Destination host unreachable.
Reply from 10.0.0.2: Destination host unreachable.
Reply from 10.0.0.2: Destination host unreachable.
Reply from 10.0.0.2: Destination host unreachable.
Ping statistics for 20.0.0.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
Top

LAB-3 = EXPERIMENT 2-b

AIM: To connect 2 PC's and 2 different networks via two different routers - STATIC ROUTING

TOPOLOGY:



1) PC3: Connected to routers interface Fa0/0 using a cross-over cable

IP address: 10.0.0.1

Default gateway: 10.0.0.2

2) PC4: Connected to routers interface Fa0/0 using a cross-over cable

IP address: 20.0.0.1

Default gateway: 20.0.0.2

3) Router3: Interface Fa0/0 connected to PC3
Interface Se2/0 connected to Router 4
IP address of Fa0/0: 10.0.0.2
IP address of Se2/0: 30.0.0.1

4) Router 4: Interface Fa0/0 connected to PC4
Interface Se2/0 connected to Router 3
IP address of Fa0/0: 20.0.0.2
IP address of Se2/0: 30.0.0.2

OBSERVATION:

1) PC3 and PC4 are connected to different subnets PC3 is on the 10.0.0.0/24 network while PC4 is on the 20.0.0.0/24 network

~~Router 3~~

If the configuration and cabling are correct you will receive successful ping replies b/w two PC's

PROCEDURE:

1) Open cisco packet tracer and place the following components in the workspace

Routers: Place two routers in the middle

PCs: Place two PCs on either of the router

2) Use cross over cables to connect the devices as follows

PC3 → Router2 Fa0/0 interface

PC4 → Router3 Fa0/0 interface

Router 2 and Router3 → Se2/0 interface using Serial DCE

3) Configure Router 3 by clicking on the router and enter CLI

Assign IP addresses to the router interfaces:

Router > enable

Router # configure terminal

Router (config) # interface fast ethernet 0/0

Router (config-if) # ip address 10.0.0.2 255.0.0.0

Router (config-if) # exit

Router (config) # interface serial 2/0

Router (config-if) # ip address 20.0.0.1 255.0.0.0

Router (config-if) # no shutdown

The ping results are as follows:

PC > ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data
Request timed out
Request timed out
Request timed out
Request timed out

Ping statistics for 20.0.0.1
Packet sent = 4, Received = 0, Lost = 4 (100% Loss)

PC> ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data
Reply from 10.0.0.2 : Destination host unreach
Reply from 10.0.0.2 : Destination host unreach
Reply from 10.0.0.2 : Destination host unreach
Request timed out

Ping statistics for 20.0.0.1 :
Packet : sent = 4, received = 0, lost = 4 (100% Loss)

Router # show ip route
Gateway of last resort is not set
C 10.0.0.0/8 is directly connected, FastEthernet 0/0
S 20.0.0.0/8 [1/0] via 30.0.0.2
C 30.0.0.0/8 is directly connected, Serial 2/0