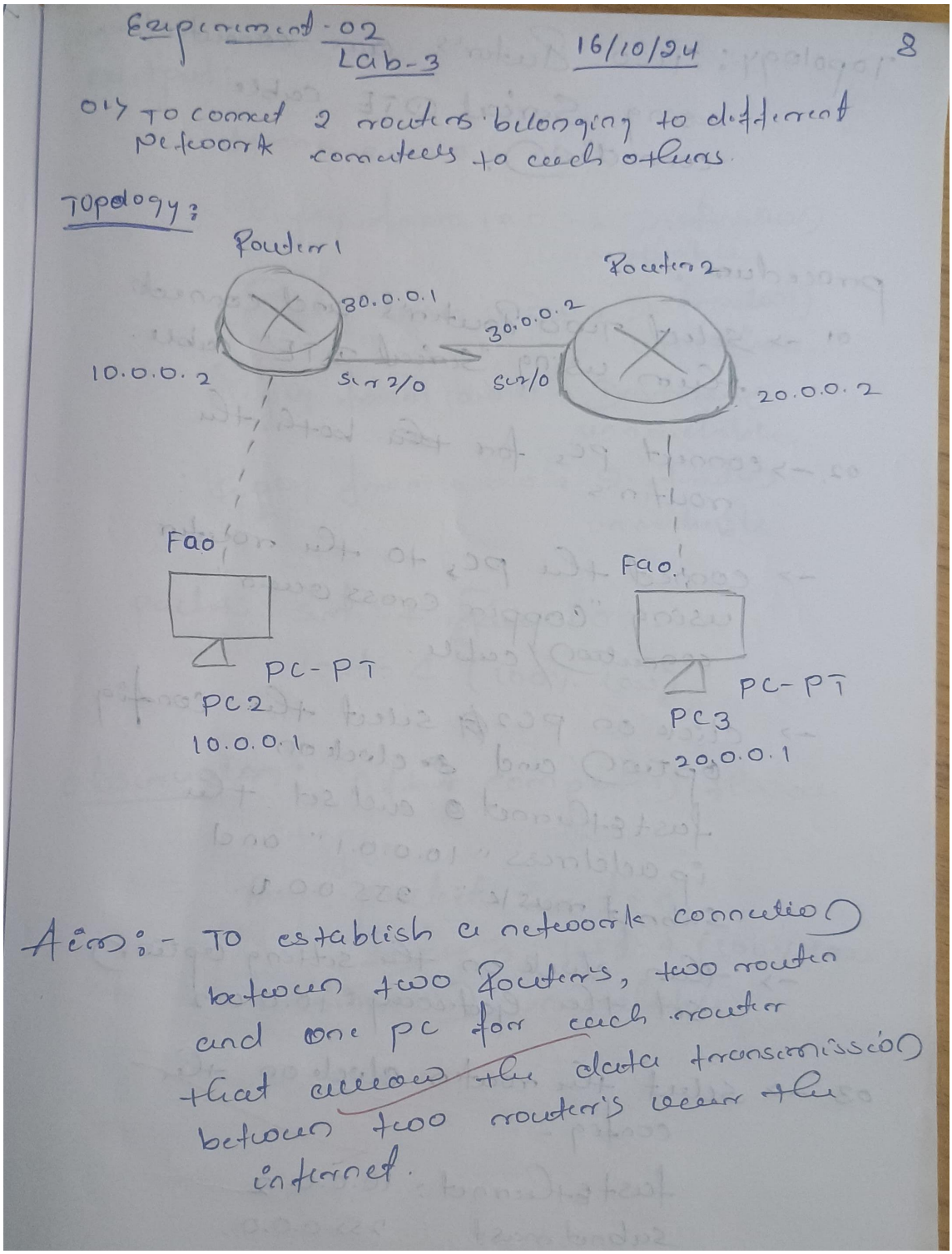
16|10|2024 Week-3(Experiment 2b and 3a)

Observation Book:



Topology: Two Routers are connected using Serial DTE cable connection.

procedure :-

01 -> Select Two Routers and connect them using "Serial DTE" cable.

02. -> connect PCs for both the routers.

-> connect the PCs to the router using "Copper Cross over" connection cable.

-> click on PC2 select the config option and click on fastethernet 0 and set the ip address "10.0.0.1" and subnet mask " 255.0.0.0.

-> then click on the setting option set the Gateway : 10.0.0.2

03. -> select the router click on the config -

fastethernet : 10.0.0.2
subnet mask : 255.0.0.0.
Serial 2/0 : 30.0.0.2
255.0.0.0.

output:

$ping 20.0.0.1

Reply from 10.0.0.2 Destination unreachable

Reply from 10.0.0.2 Destination unreachable

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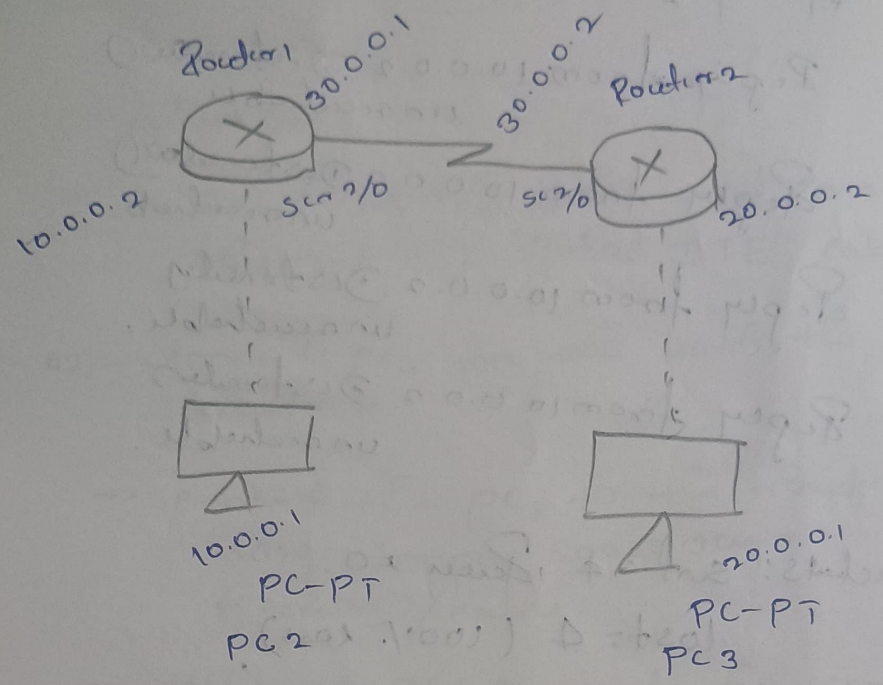
Reply from 10.0.0.2 Destination unreachable.

packets: sent = 4, Recv = 0,
lost = 4 (100% loss).

observation: After completion the above steps,
msg: packets: sent = 4,
Recv 0 lost = 4 (100% loss).
Destination unreachable.

Experiment - 3.



Aim :- Successfully connected two network using two router.

Topology: Two Routers are connected using Serial DTE cable connection

procedure:

1. Used Router and click on CLI option.
   - Exit
   - ip route ipaddress subnetmask next network ip address

- ip route 10.0.0.1 255.0.0.0 30.0.0.2
  (Router 1)
- ip route 20.0.0.1 255.0.0.0 30.0.0.1
  (Router 2).

@observation:- successfully connected two network.

$ ping 20.0.0.1

~~pinging~~.

output: ping 20.0.0.1

pinging 20.0.0.1 with 32 bytes of data.

Reply from 20.0.0.1: bytes

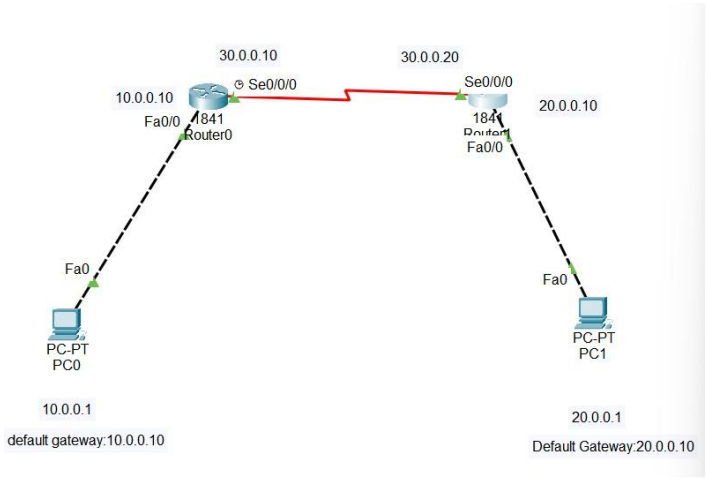
$ show ip route.

C: 30.0.0/8 ~~is directly~~ connected, ~~serial~~ 2/0.

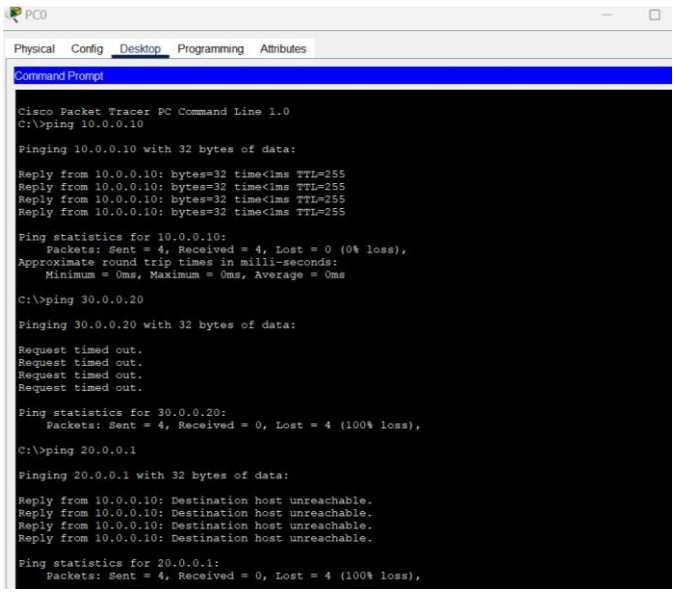
C: 10.0.0.0/8 is directly connected, fastEthernet 0/0.

S: 20.0.0.0/8 [1/0] via 30.0.0.2.

Topology:



Output:(Before Static Routing)



(After Static Routing)