Program 3

Aim: Configure default route, static route to the Router(Part 1).
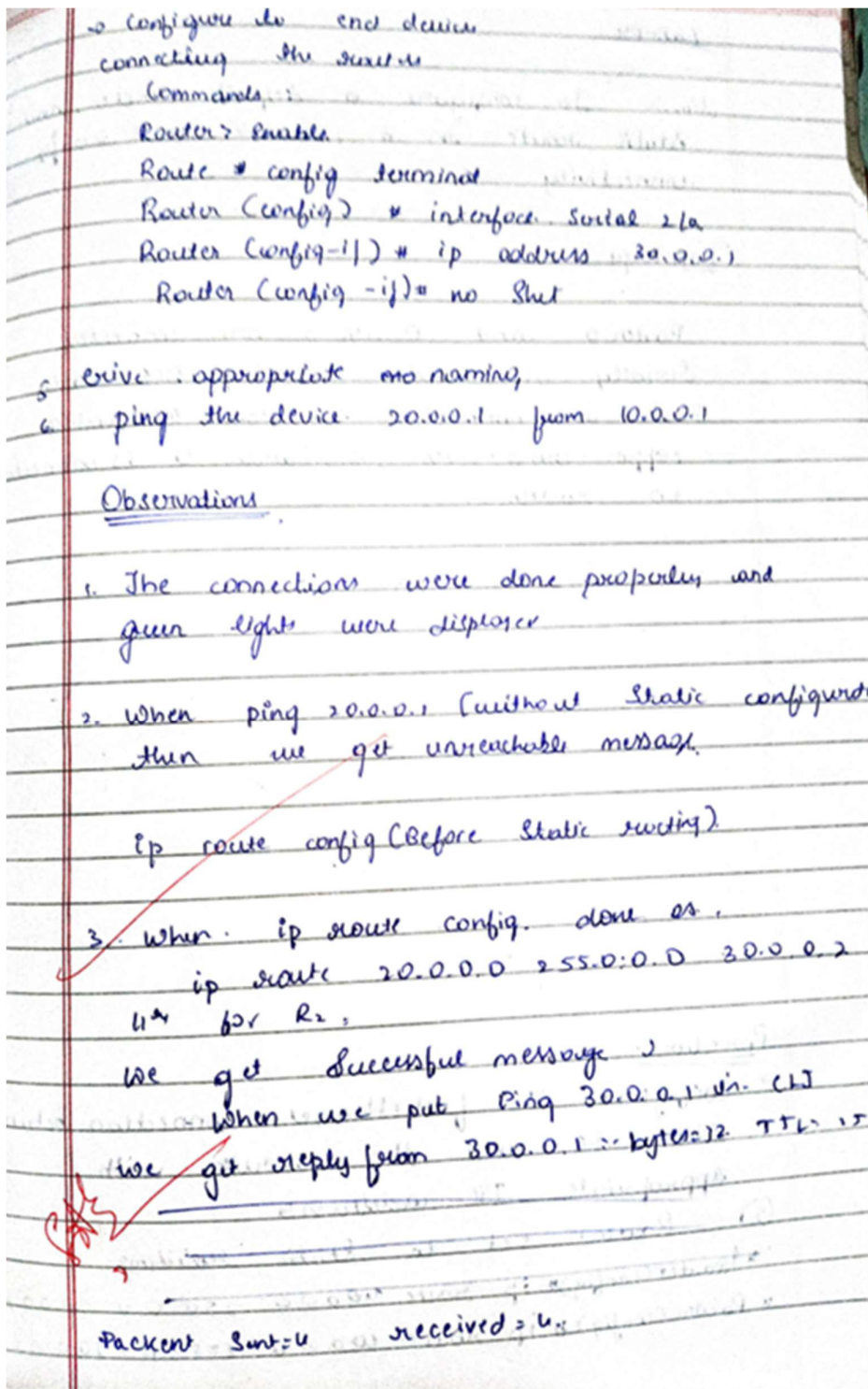
Topology , Procedure and Observation:

Lab-03

Aim : To configure IP address to router in packet tracer. Explore following message, ping responses destination unreachable, request timed av, reply.
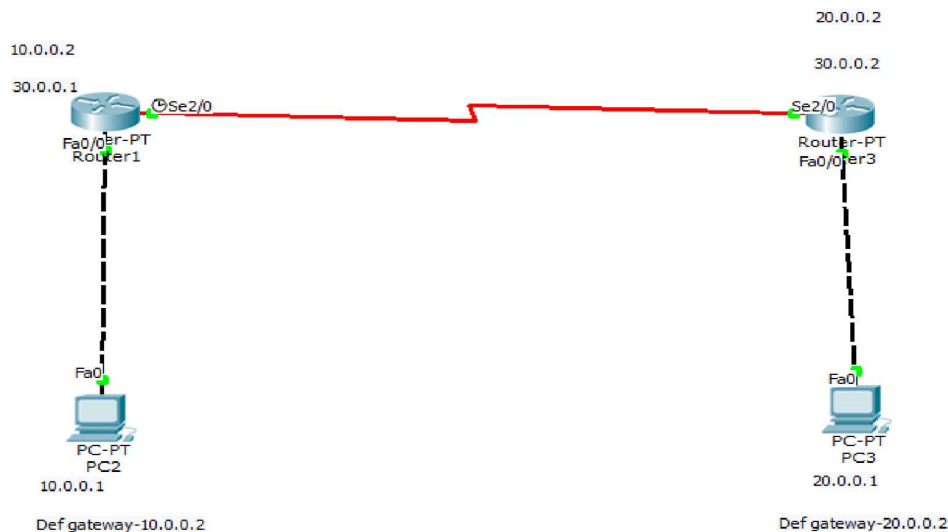
Topology

Procedure

① Add two PCs and generate two generic routers.

② Configure end devices 10.0.0.10 & 20.0.0.10 and define gateways.

③ Convert PC to router using copper cross over. Connect the routers to each other using Serial DCE.

④ Configure the routers:
   click on Route → CLI

→ Configure the end device
connecting the router

Commands :
Router > Enable
Route * config terminal
Router (config) * interface Serial 2/a
Router (config-if) # ip address 30.0.0.1
Router (config -if)* no Shut

5. Give appropriate no naming,
6. ping the device 20.0.0.1 from 10.0.0.1

Observations

1. The connections were done properly and green lights were displayed

2. when ping 20.0.0.1 (without Static configuration then we get unreachable message.

ip route config (Before Static routing)

3. when ip route config. done as.
ip route 20.0.0.0 255.0:0.0 30.0.0.2
4th for R2,
we get Successful message
when we put ping 30.0.0.1 in CLI
we get reply from 30.0.0.1 :- bytes=12 TTL=15

Packent Sent=4 received = 4

Screen Shots:

Network diagram:

10.0.0.2
30.0.0.1
Fa0/0er-PT
Router1
○Se2/0

20.0.0.2
30.0.0.2
Se2/0
Router-PT
Router3
Fa0/0er

Fa0
PC-PT
PC2
10.0.0.1
Def gateway-10.0.0.2

Fa0
PC-PT
PC3
20.0.0.1
Def gateway-20.0.0.2

PC2 — Physical | Config | Desktop | Custom Interface

Command Prompt

```
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),

PC>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),

PC>ping 20.0.0.2

Pinging 20.0.0.2 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 20.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>
```