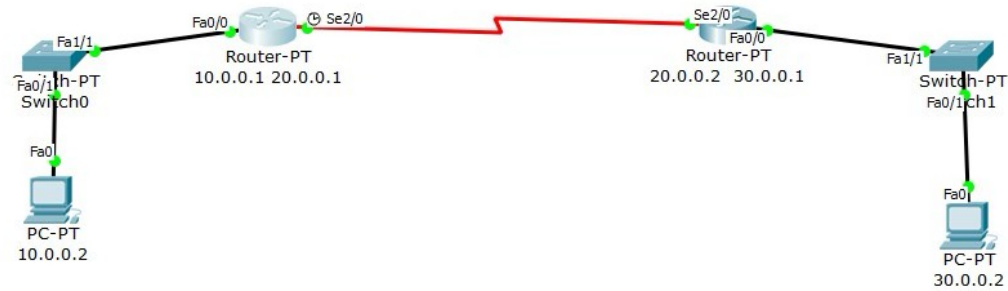


Experiment 8

Aim: Configuring RIP(Routing information protocol)

Topology:



Output:

```
10.0.0.2
Physical Config Desktop Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>ping 30.0.0.2

Pinging 30.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 30.0.0.2: bytes=32 time=2ms TTL=126
Reply from 30.0.0.2: bytes=32 time=1ms TTL=126
Reply from 30.0.0.2: bytes=32 time=5ms TTL=126

Ping statistics for 30.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 5ms, Average = 2ms

PC>ping 30.0.0.2

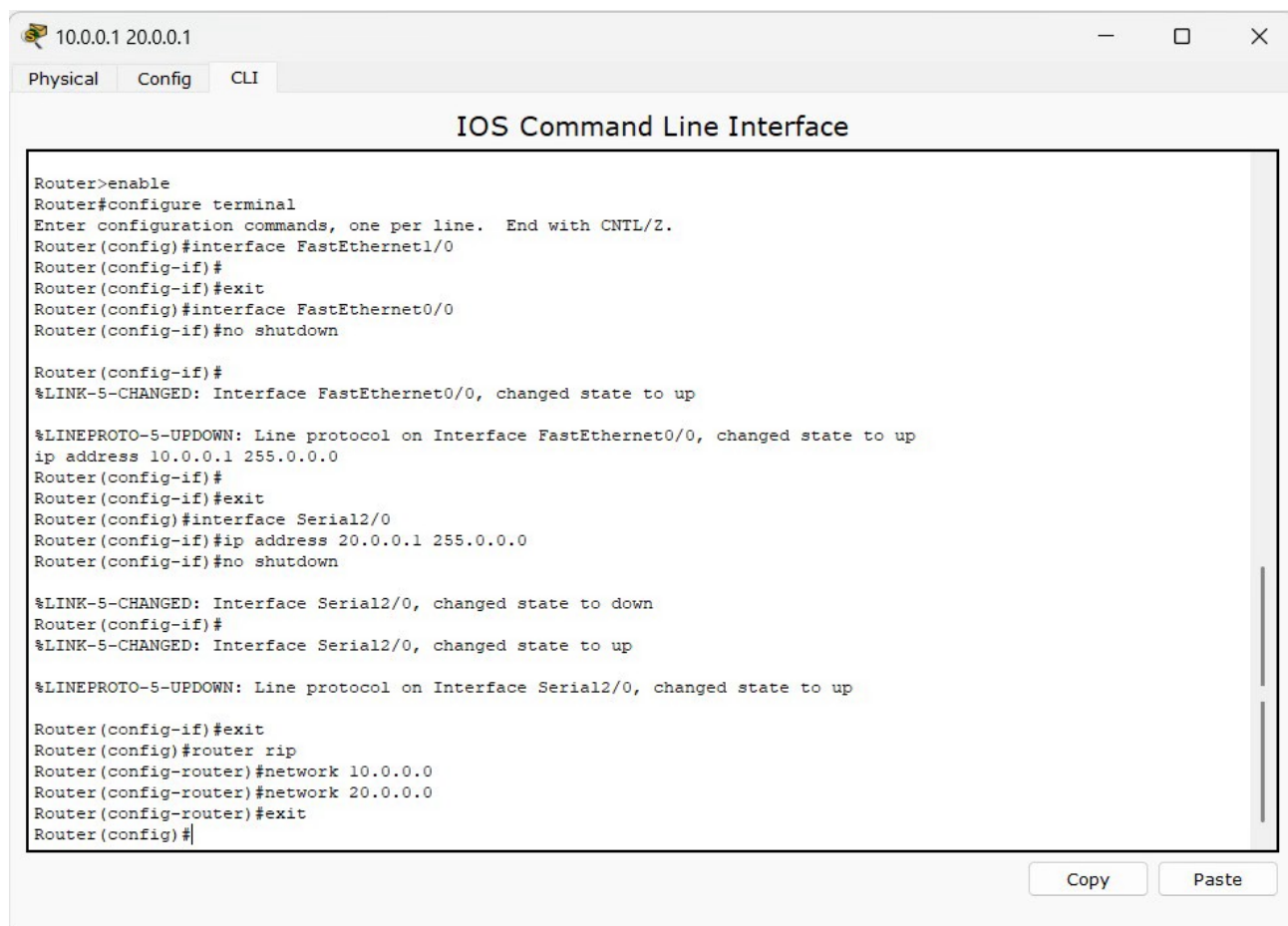
Pinging 30.0.0.2 with 32 bytes of data:

Reply from 30.0.0.2: bytes=32 time=1ms TTL=126
Reply from 30.0.0.2: bytes=32 time=4ms TTL=126
Reply from 30.0.0.2: bytes=32 time=1ms TTL=126
Reply from 30.0.0.2: bytes=32 time=4ms TTL=126

Ping statistics for 30.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 4ms, Average = 2ms

PC>
```

Router CLI:



The screenshot shows a Packet Tracer window titled "10.0.0.1 20.0.0.1" with tabs for "Physical", "Config", and "CLI". The "CLI" tab is active, displaying the "IOS Command Line Interface". The terminal output shows the following commands and responses:

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
ip address 10.0.0.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 10.0.0.0
Router(config-router)#network 20.0.0.0
Router(config-router)#exit
Router(config)#
```

At the bottom right of the CLI window, there are "Copy" and "Paste" buttons.

19/11/24

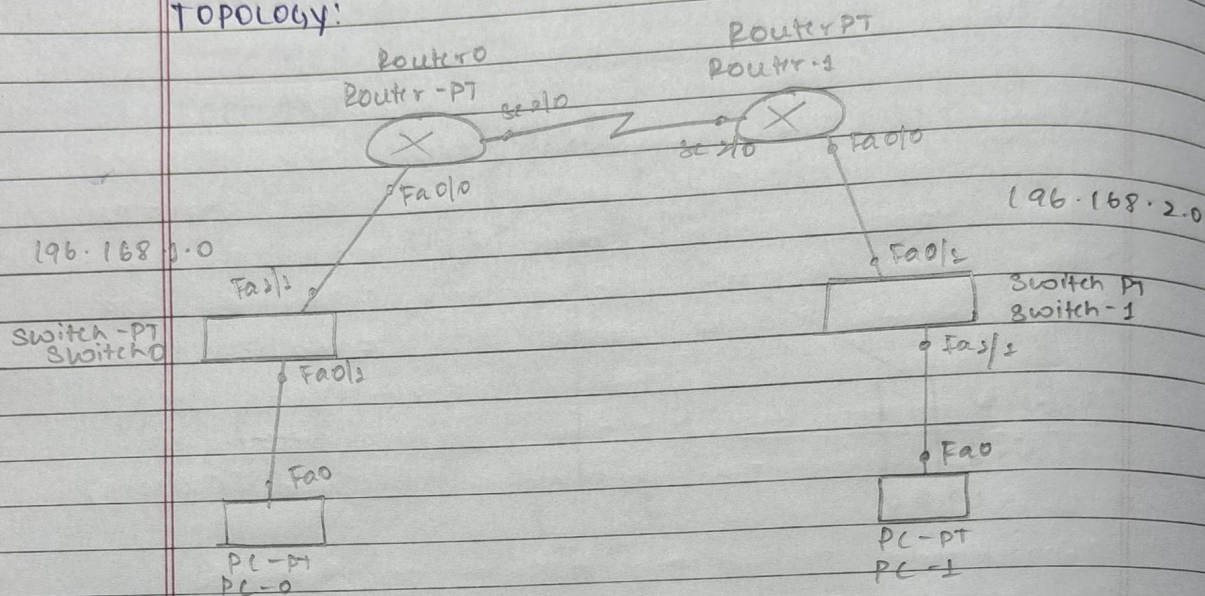
classmate

Date _____
Page _____

Experiment - 8

Aim: Configuring RIP (Routing Information Protocol)

TOPOLOGY:



Configuration:

- (i) Add two generic devices, two generic switches, two generic routers and connect them
- (ii) configure the IP address for PC 0 as 192.168.1.2 default gateway as 192.168.1.1
- (iii) configure the IP address for PC 1 as 192.168.2.2 default gateway as 192.168.2.1
- (iv) configure the fastethernet 0/0 IP address as 192.168.1.1 for router 2 as 192.168.2.1
- (v) configure the serial 2/0 on both routers with address as 10.10.0.2, 10.10.0.3 giving clock rate as 64000 and not set so respectively
Turn the status as on
- (vi) click the first router under RIP give 192.168.1.0

19/11/22

in network and click on add repeat the same but with network as 10.0.0.0 save it.

(vi) click on the second router under CLI execute the following commands

enable

config

router-rip

network 192.168.2.0

network 10.0.0.0

exit.

(ix) Go to settings in NVRAM click on save.

OBSERVATION:

Add a simple PDU from PC0 to PC1

~~it state~~ we can observe that it passes from PC0 to PC1 successfully.

19/11/22

Observation: