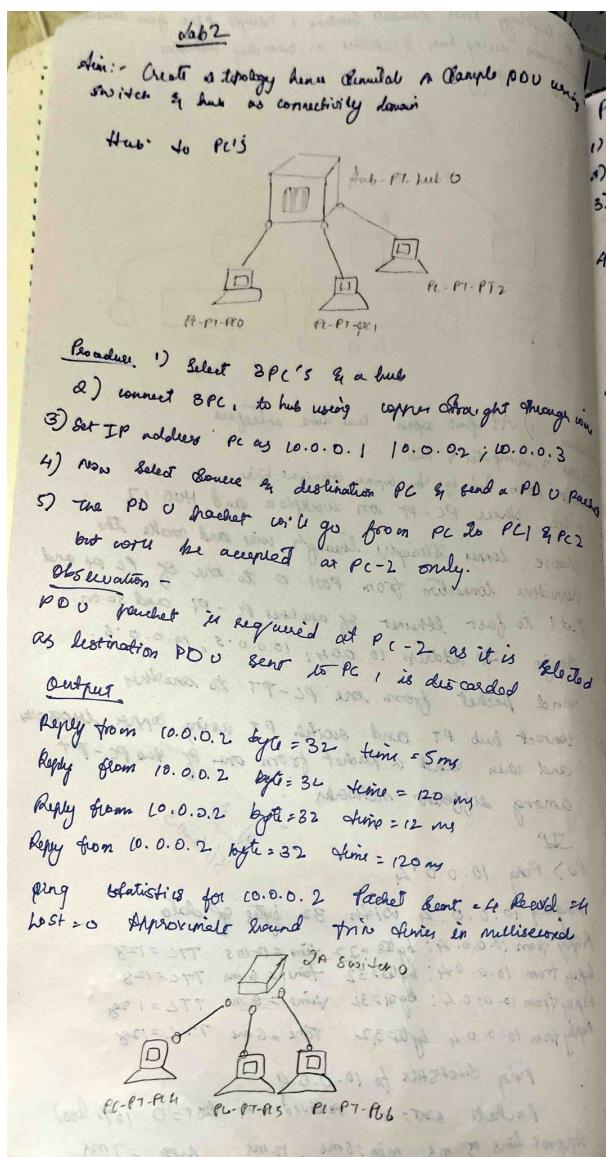
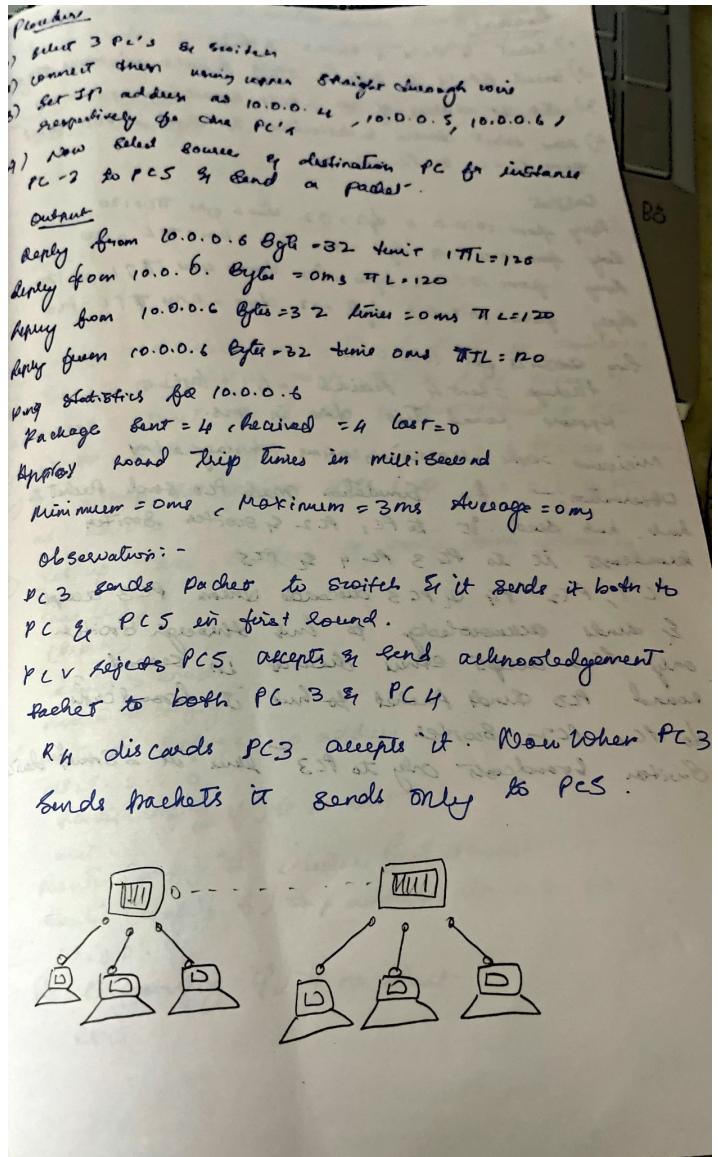


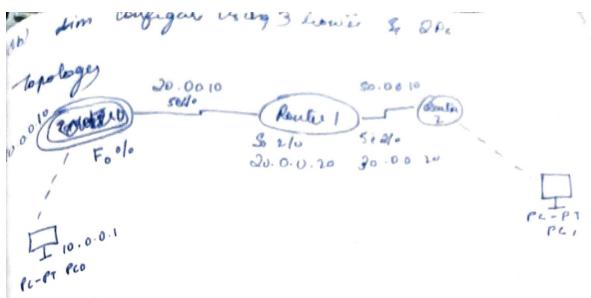
WEEK 2

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

OBSERVATION:







Procedure

- 1) The network is started by deleting and devices PC0 & PC1 is genuine PC's and placing them in work &
- 2) Select 3 router PT and place them as Router 0, 1 &
- 3) Router 0 & PC0 are connected to Router 0 & Router 2 respectively using an interface
- 4) Connect Router 0 to Router 1 directly (to Router 2).
- 5) Set up IP address of PC0 to 10.0.0.1 PT to 10.0.1

Configure router by opening CLI

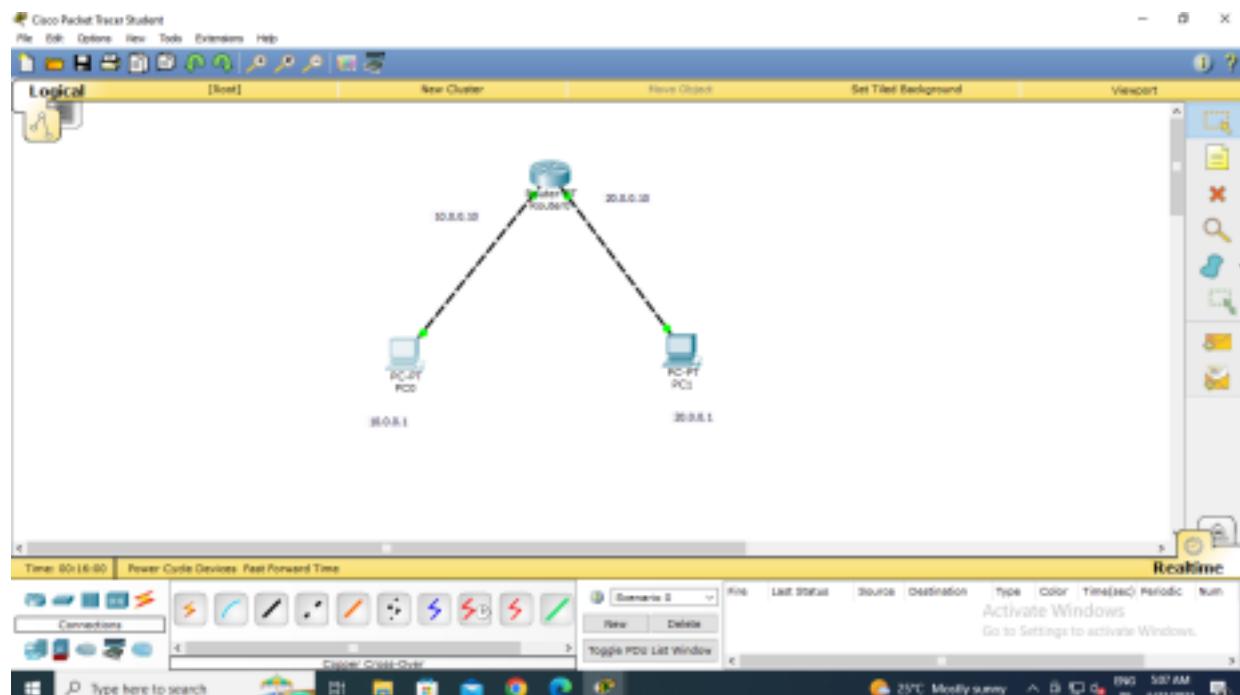
```

m router
Router > enable
Router #> config
Router (config) #> interface fastethernet 0/0
Router (config-if) #> ip address 10.0.0.10
Router (config-if) #> no shutdown
Router (config-if) #> exit
Router (config) .1) #> interface serial 2/0
Router (config-if) #> ip address 10.0.0.10
Router (config-if) #> no shutdown
Router (config-if) #> exit
Router (config) .1) #> exit
  
```

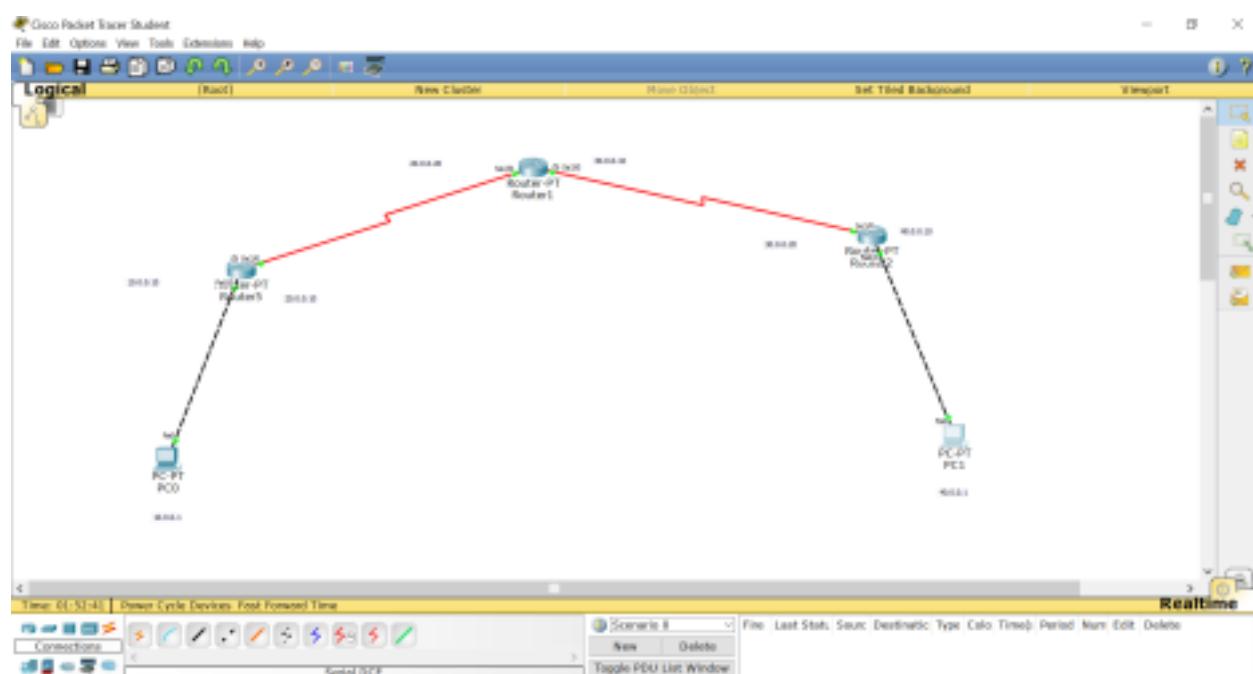
Router # config terminal
Router (config) # interface serial 0/0/0
Router (config-if) # ip address 2.0.0.0.255.0.0.0
Router (config-if) # no shutdown
Router (config) # interface serial 3/0
Router (config-if) # ip address 30.0.0.20 255.0.0.0
Router (config-if) # no shutdown
Router (config) # exit
Router (config) # exit
Router # Router 2
Router > enable
Router # config terminal
Router (config) # interface Serial 2/0
Router (config-if) # ip address 30.0.0.20 255.0.0.0
Router (config-if) # no shutdown
Router (config-if) # interface fastethernet 0/0
Router (config-if) # ip address 0.0.0.10 255.0.0.0
Router (config-if) # no shutdown
Router (config-if) # exit
Router (config) # exit
IP Router Table
Router D
Router # show ip route
C 10.0.0.0(8) is directly connected, fastethernet 0/0
L 20.0.0.0(5) is directly connected, serial 2/0

TOPOLOGY:

PROGRAM 2.1



PROGRAM 2.2



OUTPUT:

PROGRAM 2.1

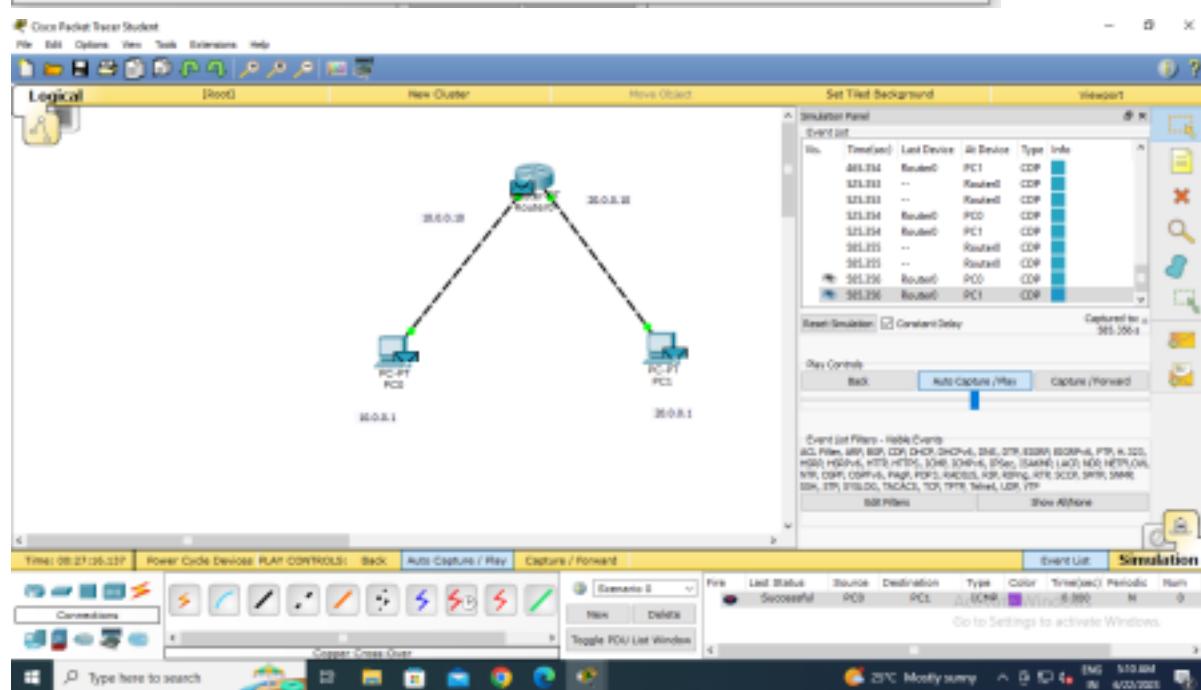
```
PC0
Physical Config Desktop Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>ping 20.0.0.1

Pinging 20.0.0.1 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.1: bytes=32 time=0ms TTL=127
Reply from 20.0.0.1: bytes=32 time=0ms TTL=127
Reply from 20.0.0.1: bytes=32 time=10ms TTL=127

Ping statistics for 20.0.0.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli=seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 3ms

PC>
```



PROGRAM 2.2

PC0

Physical Config Desktop Custom Interface

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Reply from 10.0.0.10: Destination host unreachable.
Reply from 10.0.0.10: Destination host unreachable.
Reply from 10.0.0.10: Destination host unreachable.
Request timed out.

Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>
```

PC1

Physical Config Desktop Custom Interface

Command Prompt

```
Packet Tracer 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 time=8ms TTL=125
Reply from 10.0.0.1: bytes=32 time=2ms TTL=125
Reply from 10.0.0.1: bytes=32 time=2ms TTL=125

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 8ms, Average = 3ms

PC>
```

