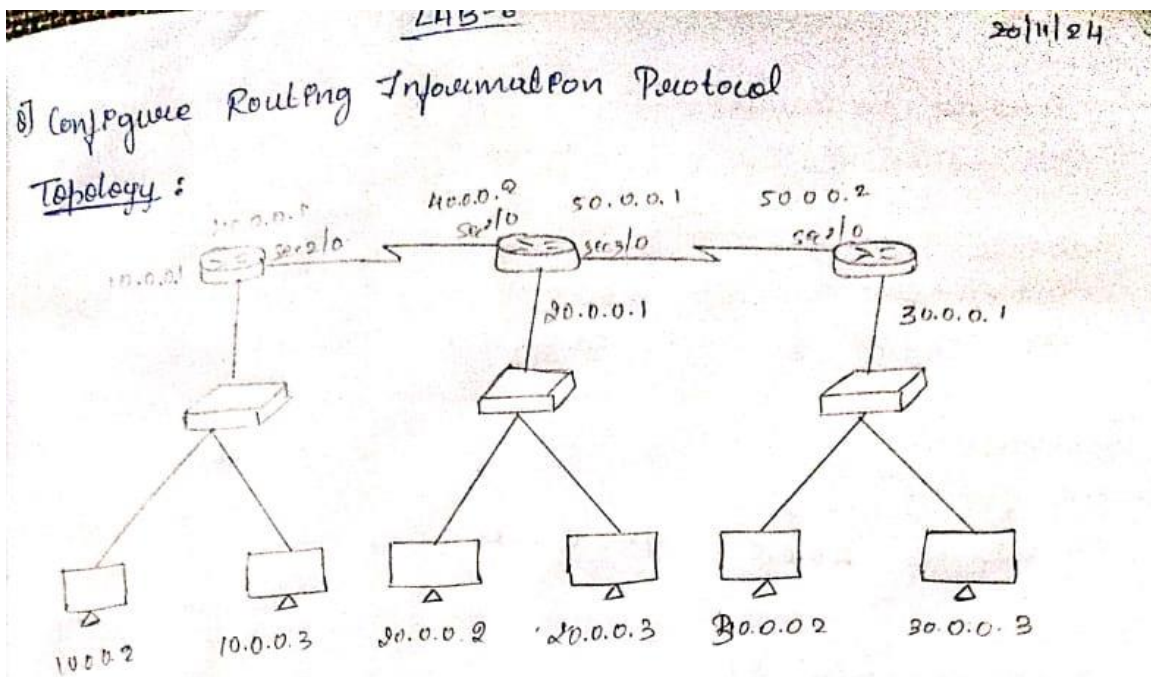


PROGRAM5: Configure RIP routing Protocol in Routers

OBSERVATION:



Procedure :

- * Select 8 pin end devices (Generic PC). Give IP address configuration as given in the diagram.
- * Select three generic PT switch. Connect two end devices to each switch that as same default gateway.
- * Select 3 routers and connect each switch to one of the routers.
- * Configure IP address to end devices and add default gateway also.

Router Configuration:-

Router 0:

Router>enable

Router # config terminal

Router (config)# interface fastethernet 0/0

Router (config-if)# ip address 10.0.0.1 255.0.0.0

Router 1 :-

Interface fast ethernet 0/0

ip address 20.0.0.1 255.0.0.0

Router 2 :-

Interface fast ethernet 0/0

ip address 30.0.0.1 255.0.0.0

Router 0 :-

Interface serial 2/0

ip address 40.0.0.1 255.0.0.0

Router 1 :-

Interface serial 2/0

ip address 40.0.0.2 255.0.0.0

Router 2 :-

Interface serial

Interface serial 3/0

ip address 50.0.0.1 255.0.0.0

Router 2 :-

Interface serial 2/0

ip address 50.0.0.2 255.0.0.0

Router 0 :-

Router (config) # router rip

Router (config-router) # network 10.0.0.0

network 40.0.0.0

Router 1 :-

Router (config) # router rip

Router (config-router) # network 40.0.0.0

network 50.0.0.0

network 20.0.0.0

Router 2 :

Router (conf) # router ospf

Router (conf-ospf) # network 50.0.0.0

network 30.0.0.0

Observation :

* packets were successfully transferred among end devices connected to all routers.

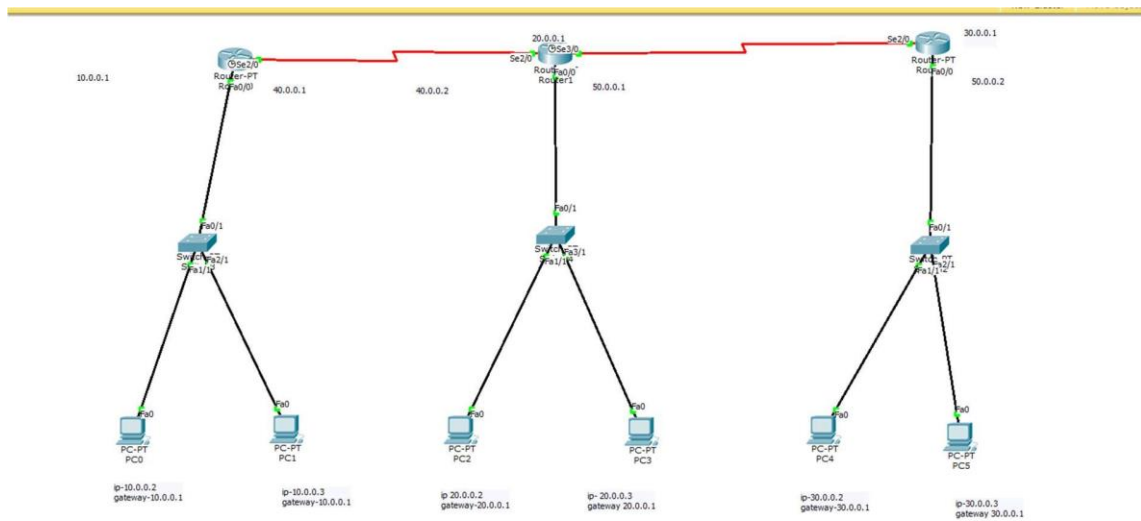
* Ping results :-

from PC1

ping 20.0.0.2

Sent = 4, Received = 4, lost = 0

TOPOLOGY:



OUTPUT:

```
Request timed out.
Reply from 20.0.0.2: bytes=32 time=2ms TTL=126
Reply from 20.0.0.2: bytes=32 time=2ms TTL=126
Reply from 20.0.0.2: bytes=32 time=4ms TTL=126

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 4ms, Average = 2ms

PC>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2: bytes=32 time=5ms TTL=126
Reply from 20.0.0.2: bytes=32 time=2ms TTL=126
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 5ms, Average = 2ms

PC>
```