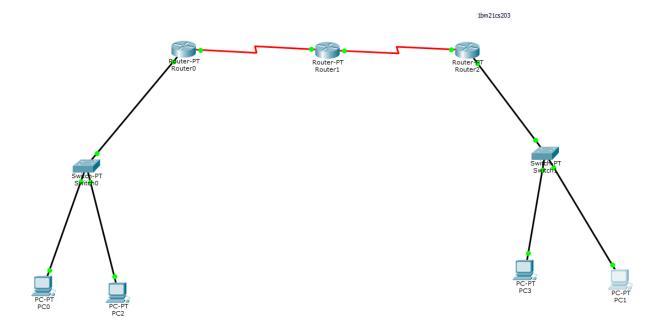
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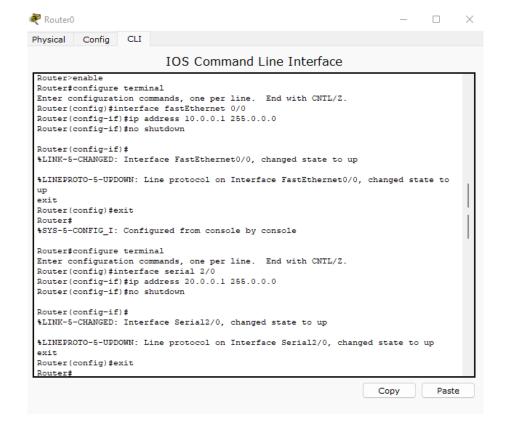


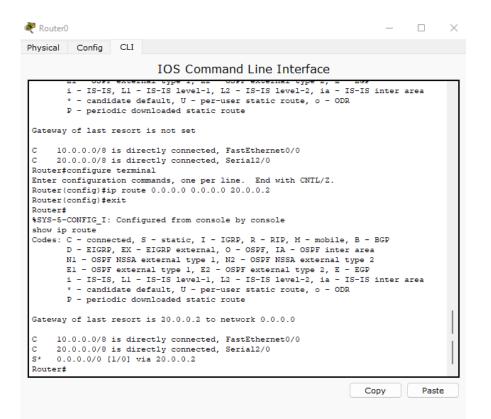
Output:

```
Command Prompt
                                                                             Χ
PC>ping 40.0.0.11
Pinging 40.0.0.11 with 32 bytes of data:
Request timed out.
Reply from 40.0.0.11: bytes=32 time=4ms TTL=125
Reply from 40.0.0.11: bytes=32 time=8ms TTL=125
Reply from 40.0.0.11: bytes=32 time=6ms TTL=125
Ping statistics for 40.0.0.11:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 8ms, Average = 6ms
PC>ping 40.0.0.10
Pinging 40.0.0.10 with 32 bytes of data:
Request timed out.
Reply from 40.0.0.10: bytes=32 time=4ms TTL=125
Reply from 40.0.0.10: bytes=32 time=6ms TTL=125
Reply from 40.0.0.10: bytes=32 time=9ms TTL=125
Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 9ms, Average = 6ms
PC>
```

CLI:

Router 0:

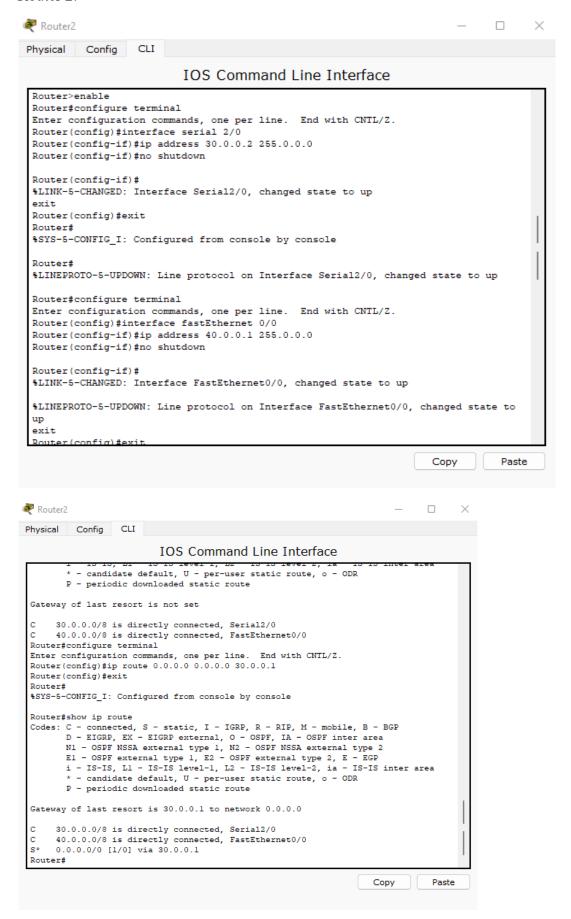




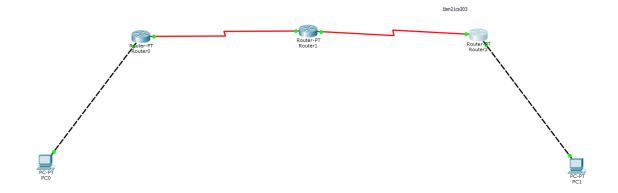
Router 1:



Router 2:



EXPERIMENT 2: Configuring RIP protocol to router



Output:

```
Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.10

Pinging 40.0.0.10 with 32 bytes of data:

Request timed out.
Reply from 40.0.0.10: bytes=32 time=7ms TTL=125
Reply from 40.0.0.10: bytes=32 time=4ms TTL=125
Reply from 40.0.0.10: bytes=32 time=5ms TTL=125

Ping statistics for 40.0.0.10:

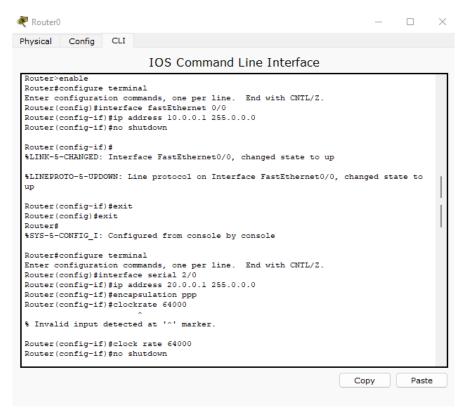
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:

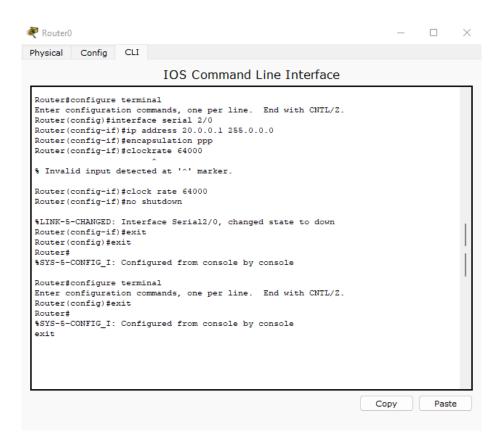
Minimum = 4ms, Maximum = 7ms, Average = 5ms

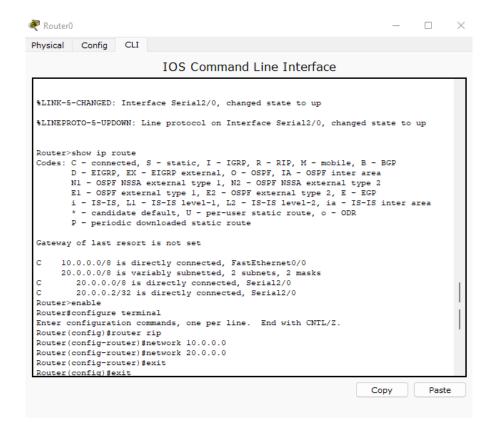
PC>
```

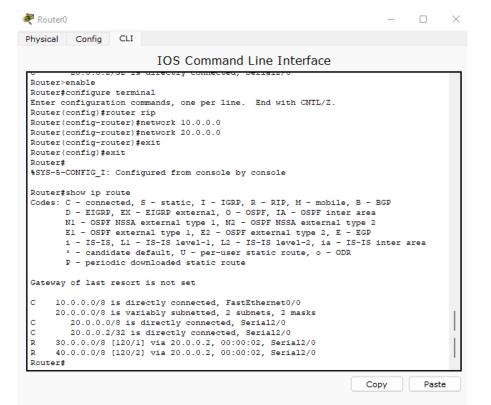
CLI:

Router 0:

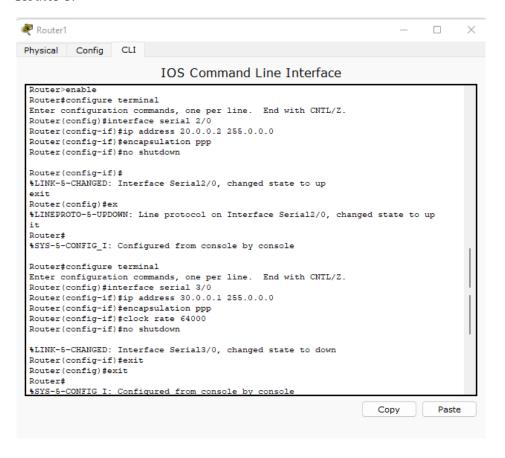


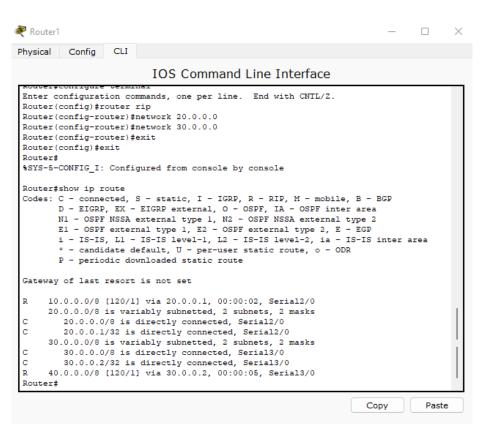




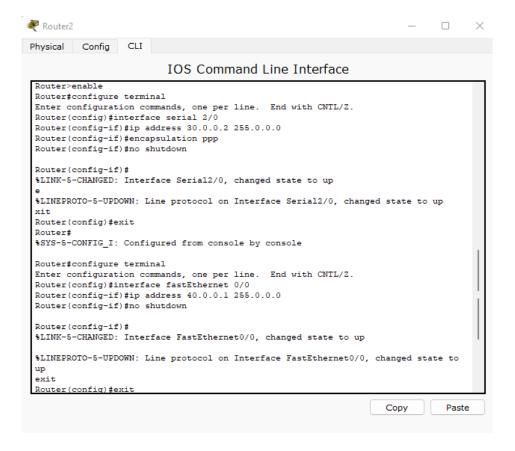


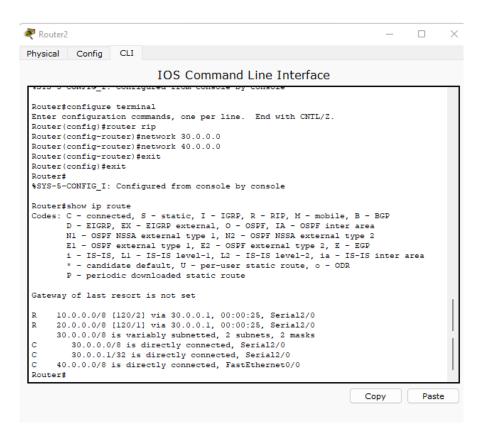
Router 1:





Router 2:





OUTCOME:

There are different ways of assigning ip route: static and default. In assigning default ip route for routers in a topology, we assign default ip routes to router 0 and router 2 and assign static ip route to router 1. The messages are routed to router 1 and router 1 takes care of forwarding the message appropriately. Routers maintain communication among each other and source and destination through routing protocols. Here, in experiment 2, we have used RIP routing protocol. In cases, where we don't implement routing protocols, we assign static and default ip routes.