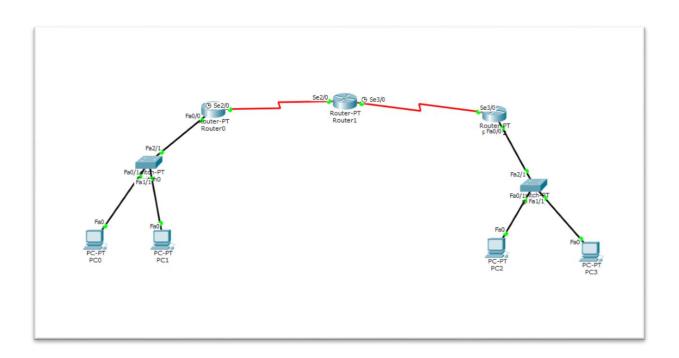
### 1. Configuring Default Route

Topology:



```
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:
Reply from 20.0.0.1: bytes=32 time=1ms TTL=255
Reply from 20.0.0.1: bytes=32 time=2ms TTL=255
Reply from 20.0.0.1: bytes=32 time=0ms TTL=255
Reply from 20.0.0.1: bytes=32 time=0ms TTL=255
Ping statistics for 20.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
     Minimum = 0ms, Maximum = 2ms, Average = 0ms
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=3ms TTL=254
Reply from 20.0.0.2: bytes=32 time=3ms TTL=254
Reply from 20.0.0.2: bytes=32 time=4ms TTL=254
Reply from 20.0.0.2: bytes=32 time=3ms TTL=254
Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
```

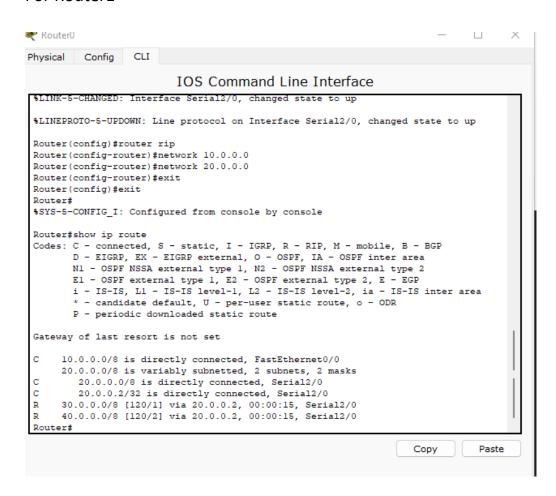
```
Χ
Command Prompt
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 4ms, Average = 3ms
PC>ping 30.0.0.1
Pinging 30.0.0.1 with 32 bytes of data:
Reply from 30.0.0.1: bytes=32 time=4ms TTL=254
Reply from 30.0.0.1: bytes=32 time=5ms TTL=254
Reply from 30.0.0.1: bytes=32 time=4ms TTL=254
Reply from 30.0.0.1: bytes=32 time=5ms TTL=254
Ping statistics for 30.0.0.1:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 5ms, Average = 4ms
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=7ms TTL=253
Reply from 30.0.0.2: bytes=32 time=7ms TTL=253
Reply from 30.0.0.2: bytes=32 time=9ms TTL=253
Reply from 30.0.0.2: bytes=32 time=11ms TTL=253
Ping statistics for 30.0.0.2:
```

```
Command Prompt
 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=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=3ms 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 = 2ms, Maximum = 7ms, Average = 4ms
PC>ping 40.0.0.11
Pinging 40.0.0.11 with 32 bytes of data:
Reply from 40.0.0.11: bytes=32 time=9ms TTL=125
Reply from 40.0.0.11: bytes=32 time=5ms TTL=125
Reply from 40.0.0.11: bytes=32 time=8ms 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 = 5ms, Maximum = 9ms, Average = 7ms
PC>
```

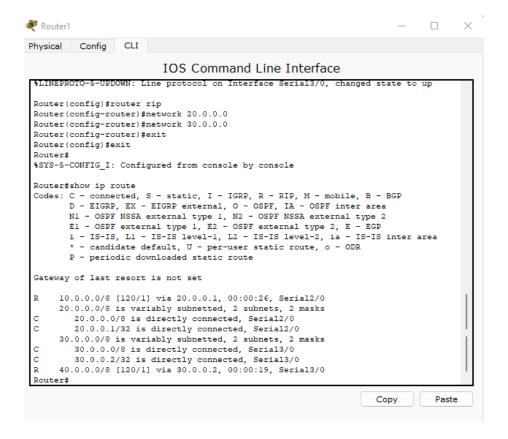
# 2. Configuring RIP protocol to a router Topology:



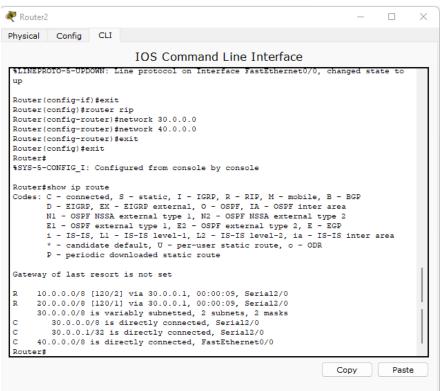
#### For Router1



For Router2



#### For Router3

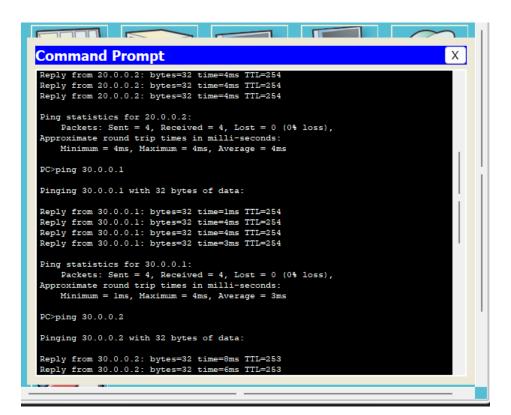


Output:

End Device with ip address 10.0.0.10

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:



```
₹ PC0
                                                                                               Physical
          Config
                       Desktop
                                   Custom Interface
                                                                                                    Χ
    Command Prompt
       >ping 40.0.0.1
    Pinging 40.0.0.1 with 32 bytes of data:
    Reply from 40.0.0.1: bytes=32 time=10ms TTL=253 Reply from 40.0.0.1: bytes=32 time=9ms TTL=253 Reply from 40.0.0.1: bytes=32 time=9ms TTL=253
    Reply from 40.0.0.1: bytes=32 time=9ms TTL=253
    Ping statistics for 40.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
        Minimum = 9ms, Maximum = 10ms, Average = 9ms
    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=9ms TTL=125
    Reply from 40.0.0.10: bytes=32 time=7ms TTL=125
    Reply from 40.0.0.10: bytes=32 time=7ms 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 = 7ms, Maximum = 9ms, Average = 7ms
    PC>
```

## End Device with ip address 40.0.0.10

```
Command Prompt

Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.10

Pinging 10.0.0.10 with 32 bytes of data:

Reply from 10.0.0.10: bytes=32 time=8ms TTL=125

Ping statistics for 10.0.0.10:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 8ms, Average = 6ms

PC>
```