Lab – 03:

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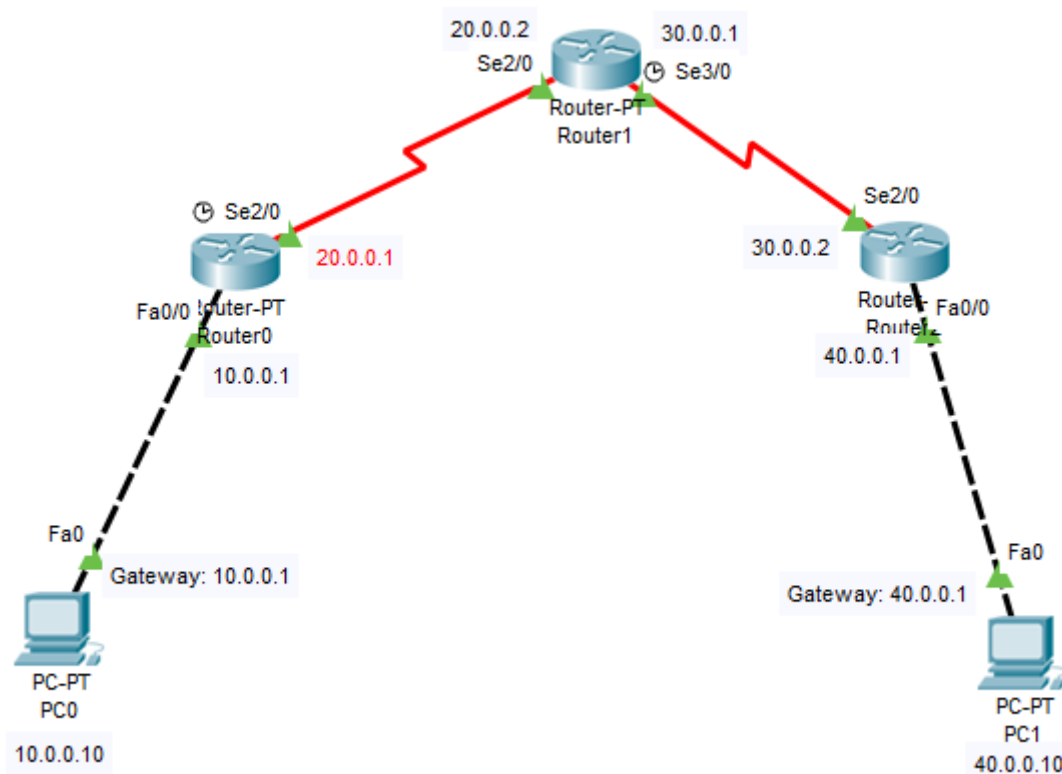**Aim:** Configuring default Route to the Router

Procedure:

1. Three Routers & two PC's are connected as shown in the topology below.
2. Pinging PC1 from PC0 shows destination host unreachable.
3. Adding static routes to the routers using '**ip route <destination> <subnet mask> <next hop>**' in the enable terminal mode.

Observation:

Pinging PC1 from PC0 or vice-versa works expected. The '**show ip route**' command shows the routers which connected directly or static.
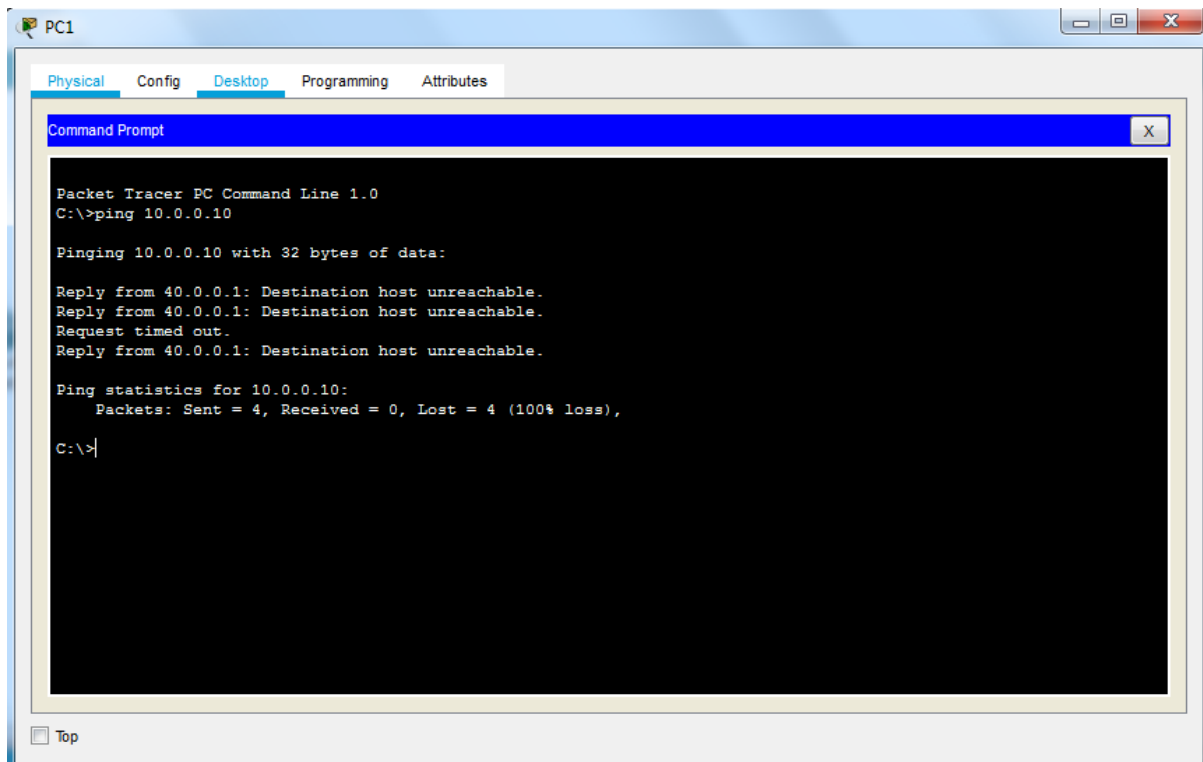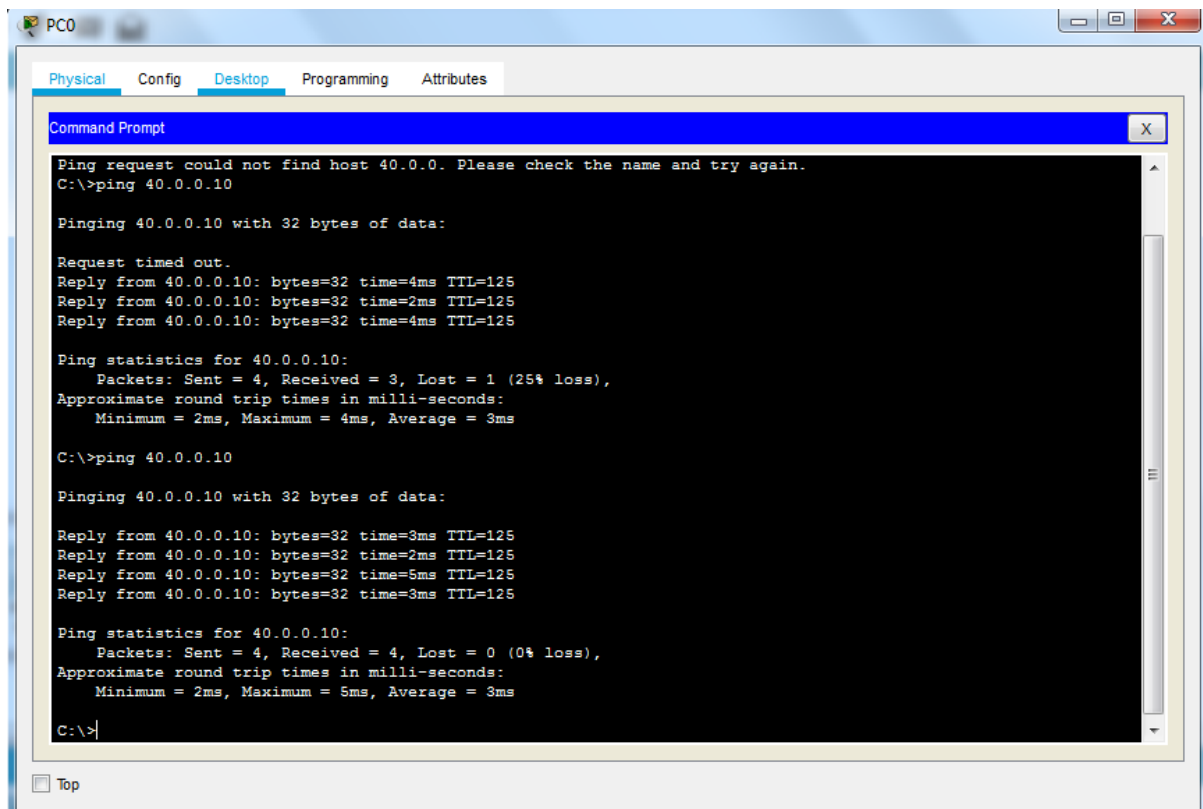
Topology:

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Initial Ping (Failure)


```
PC1                                                                    [_][□][X]

Physical   Config   Desktop   Programming   Attributes

Command Prompt                                                              X

Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.10

Pinging 10.0.0.10 with 32 bytes of data:

Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.
Request timed out.
Reply from 40.0.0.1: Destination host unreachable.

Ping statistics for 10.0.0.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>

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```

Ping After Adding static Routes(Success).


```
PC0                                                                    [_][□][X]

Physical   Config   Desktop   Programming   Attributes

Command Prompt                                                              X

Ping request could not find host 40.0.0. Please check the name and try again.
C:\>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=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=4ms 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 = 4ms, Average = 3ms

C:\>ping 40.0.0.10

Pinging 40.0.0.10 with 32 bytes of data:

Reply from 40.0.0.10: bytes=32 time=3ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=5ms 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 = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 5ms, Average = 3ms

C:\>

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```

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PC1

Physical | Config | Desktop | Programming | Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.10

Pinging 10.0.0.10 with 32 bytes of data:

Reply from 10.0.0.10: bytes=32 time=3ms TTL=125
Reply from 10.0.0.10: bytes=32 time=12ms TTL=125
Reply from 10.0.0.10: bytes=32 time=11ms TTL=125
Reply from 10.0.0.10: bytes=32 time=2ms 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 = 12ms, Average = 7ms

C:\>
```

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