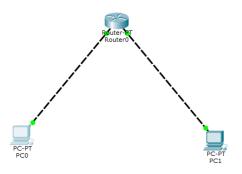
CN LAB 2

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

TOPOLOGY:



OUTPUT WITHOUT SETTING DEFAULT GATEWAY:

```
Physical Config Desktop Custom Interface

Command Prompt

Packet Tracer PC Command Line 1.0
PC>ipconfi
Invalid Command.

PC>ipconfig

FastEthernet0 Connection: (default port)

Link-local IPv6 Address. ...: FE80::201:42FF:FE80:86E3

IP Address. ...: 10.0.0.10

Subnet Mask. ...: 255.0.0.0

Default Gatevay. ....: 0.0.0.0

PC>ping 20.0.0.10

Pinging 20.0.0.10 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 20.0.0.10:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>
```

OUTPUT AFTER SETTING DEFAULT GATEWAY:

```
Minimum = Ums, Maximum = Ums, Average = Ums

PC-ping 20.0.0.10

Pinging 20.0.0.10 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 20.0.0.10:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC-ping 20.0.0.10

Pinging 20.0.0.10 with 32 bytes of data:

Reply from 20.0.0.10: bytes=32 time=1ms TTL=127
Reply from 20.0.0.10: bytes=32 time=0ms TTL=127
Reply from 20.0.0.0.10: bytes=32 time=0ms TTL=127
Reply from 20.0.0.10: bytes=32 ti
```

OUTCOMES:

- 1.Ping Responses: The configured IP address of the destination device is correct and the network connection is functioning properly thus, we receive a successful ping response. This indicates that the destination device is reachable and responsive.
- 2. Without setting default gateway for the end devices: Request Timed Out-
- "Request Timed Out" message: thus-the router sent a request but did not receive a response within a specific time frame.
- 3.After setting default gateway for end devices- Reply from: 4 "Reply from..32 bytes" messages are seen. Router has received a valid message or request and thus it generates a reply to acknowledge the receipt. A reply message confirms that the communication is established and the router is functioning properly.