

EXPERIMENT-2

Question 2:

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

Observation:

LAB 02
EXPERIMENT 02

Aim: To connect 2 PC's with 2 different routes using a router.

Topology: Connect 2 PC's to a router using 2 copper crossovers.

Procedure:

- Add 2 PC's and one generic router on the workspace.
- Give the PC's and IP address and default gateway.
- Let 1 PC be connected to the router through a copper crossover over each.
- Click on the router, desktop and set commands and proceed with the following commands:

```
Router>enable
Router#config terminal
Router(config)# interface fastethernet 0/0
Router(config)# ip address 10.0.0.1 255.0.0.0
Router(config)# no shutdown
Router(config)# exit
```

- Click on the PC - desktop - Command Prompt
- ping 10.0.0.10

Observation: The buttons on the copper crossover turned green.
Packets were sent from one PC to the other.
PC received all packets.

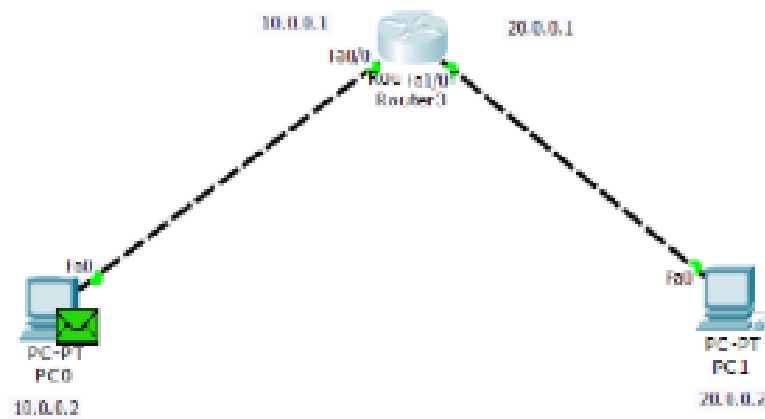
Output

Router# show ip route

```

C 10.0.0.0/24 is directly connected, FastEthernet0/0
C 10.0.0.0/24 is directly connected, FastEthernet0/1
```

Screenshot of the topology:



Screenshot of the output:

```
C 10.0.0.0/8 is directly connected, FastEthernet0/0
C 20.0.0.0/8 is directly connected, FastEthernet1/0
```

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=4ms TTL=127
Reply from 10.0.0.2: bytes=32 time=4ms TTL=127
Reply from 10.0.0.2: bytes=32 time=4ms TTL=127
Reply from 10.0.0.2: bytes=32 time=4ms TTL=127

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 4ms, Average = 4ms
```