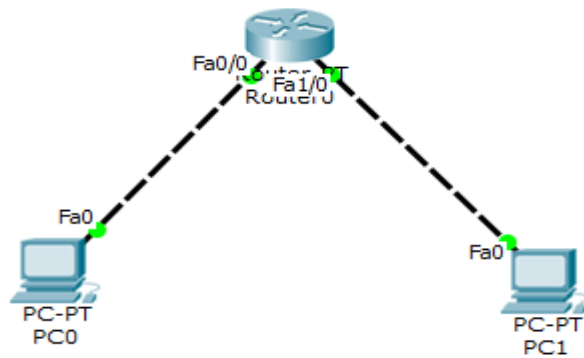**Lab-02 Configure IP address to routers in packet tracer. Explore the following messages: Ping responses, destination unreachable, request timed out, reply**

Topology:

Configuration

```
Press RETURN to get started!


Router>
Router>enable
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface fastetherent0/0
                        ^
% Invalid input detected at '^' marker.

Router(config)# interface fastethernet0/0
Router(config-if)# ip address 10.0.0.2 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
Router(config)# interface
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)# interface fastethernet1/0
Router(config-if)#ip address 20.0.0.3 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
```

Output:


```
Command Prompt

Packet Tracer PC Command Line 1.0
PC>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

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=1ms TTL=127
Reply from 20.0.0.2: bytes=32 time=0ms TTL=127
Reply from 20.0.0.2: bytes=32 time=4ms TTL=127
Reply from 20.0.0.2: bytes=32 time=4ms TTL=127

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 4ms, Average = 2ms
```

Observation:

Lab-02

Aim: Configure IP address to routers in Packet-Tracer. Explore the following messages: ping responses, destination unreachable, request timed out, reply.

Router 0

Fa0/0   Fa1/0

PC-0   PC-1

Configuration Steps:

1. In Cisco Packet Tracer select 2 Generic PC's & a sigle Generic Router in Real-time.
2. Connect all the devices with a cable.
3. Set IP addresses to PC's
    PC0 - 10.0.0.1
    PC1 - 20.0.0.2
4. In the Router select CLI & set configurations using commands.
* Click Enter
* Now Router should enable, - enable
* Config t
* interface fastethernet 0|0 — (interface name for PC0)
* ip address 10.0.0.2 255.0.0.0
        (should be same IP & subnet of PC0)
* no shutdown
5. After doing the above configuration, the

links gets activated.

Do the same configuration for PC-1

6. Now set gateway for PC-0 & PC-1

    PC0 - 10.0.0.2

    PC1 - 20.0.0.3

7. Next select PC-0 , > Desktop> command Prompt, & give destination IP addresses

    - ping 20.0.0.2,

8. Now the Packets has sent from PC-0 to PC-1.

Observation:

    After using ping command in command prompt we can observe that 4 packets are sent & rucieved from PC-0 to PC-1.

ping 20.0.0.2

pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2 : bytes = 32 time = 1ms TTL=127

Reply from 20.0.0.2 : bytes = 32 time = 0ms TTL=127

Reply from 20.0.0.2 : bytes = 32 time = 0ms TTL=127

Reply from 20.0.0.2 : bytes = 32 time = 4ms TTL = 127

ping statistics for 20.0.0.2 :

    packets: Sent = 4, Recieved = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

    Minimum = 0ms, Maximum = 4ms, Average = 2 ms