

Program 2

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

Topology , Procedure and Observation:

9/10/24
Experiment - 2 Experiment - 2 (6)

1. > PC to Router:

Aim: To create simple network consisting of 2 PCs connected to the router facilitating communication between the two PC's through router.

Topology: 2 PC's are connected to the router using Copper Cross-Over.

Procedure:

- 1) Connect the 2 PCs to the router using copper cross over.
- 2) Open config in the PC and configure the IP address and the gateway.
- 3) Do the same for the other PC.
- 4) Open CLI in the router and configure the fast ethernet connection by the following commands.

(7)

```

> enable
> config terminal
> interface fastEthernet 0/0 0/0
> ip address 10.0.0.1 255.0.0.0
               gateway      subnet mask
> no shutdown
exit.

```

Repeat the steps for other PC connection.

Observation: Routers can be used to manage communication and data transfer between two different network. While doing ping test we can observe that chances of losing one packet are high because the router will be busy in establishing the connection.

Output:

Router > show ip route

gateway of last resort is not set

0 10.0.0.0/8 is directly connected, FastEthernet 0/0

0 20.0.0.0/8 is directly connected, FastEthernet 1/0

Screen Shots:

