

## 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:**

Lab - 2

MY PAGES  
Date \_\_/\_\_/\_\_

**Aim:-**  
To connect 2 PC's in two different network using a router

**Topology:-**

```
graph TD
    Router((Router)) --- PC1[PC1]
    Router --- PC2[PC2]
    subgraph Network1 [10.0.0.0]
        PC1
    end
    subgraph Network2 [20.0.0.0]
        PC2
    end
```

**Procedure**

- 1 Drag & drop a generic router & 2 PC's
- 2 Connect the router & PC's using copper cross over cable
- 3 Set the gateway as 10.0.0.1 for PC1 & also the IP address as 10.0.0.10
- 4 Set the gateway as 20.0.0.1 for PC2 also the IP address as 20.0.0.10



⑤ Execute the following commands in CLI of Router

- Enable
- config terminal
- Interface fastEthernet 0/0 or 1/0
- IP address 10.0.0.1 & 255.0.0.0
- No Shutdown
- Exit

- Repeat for 2nd PC

⑥ On PC-10.0.0.10 → Desktop → cmd prompt  
ping 20.0.0.10

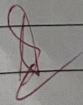
⑦ show ip route

⇒ Output

C 10.0.0.0/8 is directly connected Fast Ethernet 0/0  
C 20.0.0.0/8 is directly connected Fast Ethernet 1/0

Observation

- 1) Data packets was sent from PC 10.0.0.10 to router
- 2) The router sent the packet to PC 20.0.0.10
- 3) Data packets back to router and back to PC 10.0.0.10 with a tick mark



## Screen Shots:

