LAB 02:
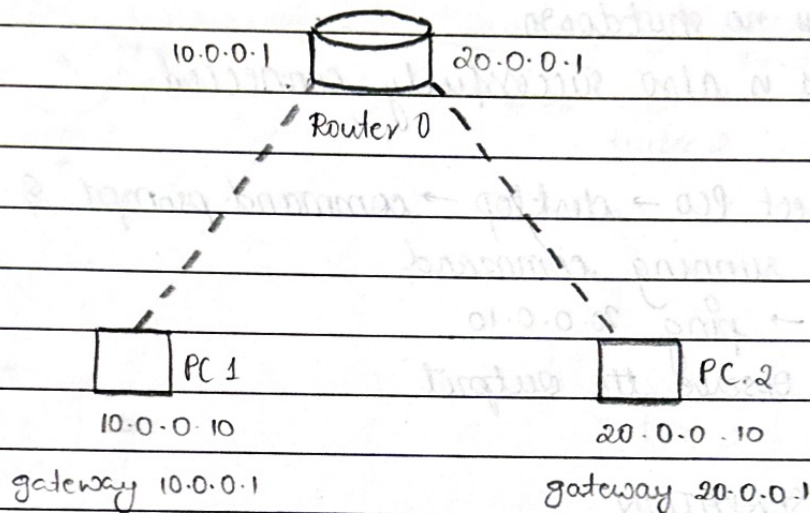
OBJECTIVE:

To create a simple network consisting of 2 PC's and simulating communication between them through a router.

Topology

Router 0 — 10.0.0.1 / 20.0.0.1

PC 1 — 10.0.0.10 — gateway 10.0.0.1

PC.2 — 20.0.0.10 — gateway 20.0.0.1

PROCEDURE:

1. Place 2 generic PC's and one generic router, connect both PC's to the routers fast ethernet port using coppe cross over wire.

2. Select PC1 config→ Fast Ethernet 0 set IP address as 10.0.0.10 and default gateway 10.0.0.1 similarly for PC2 IP 20.0.0.10 and default gateway 20.0.0.1

3. Select router and go to the CLI, execute the following commands

```
>enable
#config terminal
#interface fast Ethernet 0/0
#IP address 10.0.0.1  255.0.0.0
```

#no shatdown

exit

notice PC0 and router 0 are successfully conne

now ran for PC1

interface fast ethernet 1/0

IP address 20.0.01 255.0.0.0

no shutdown

PC1 is also successfully connected

4. Select PC0 → desktop → command prompt & ping PC1

by running command

→ ping 20.0.0.10

Observe the output

OBSERVATION :

PC0 successfully ping PC1 with 32 bytes of data

Ping statistics

Packets :

Sent = 4 , Recieved = 4 , Lost = 0

bytes TTL