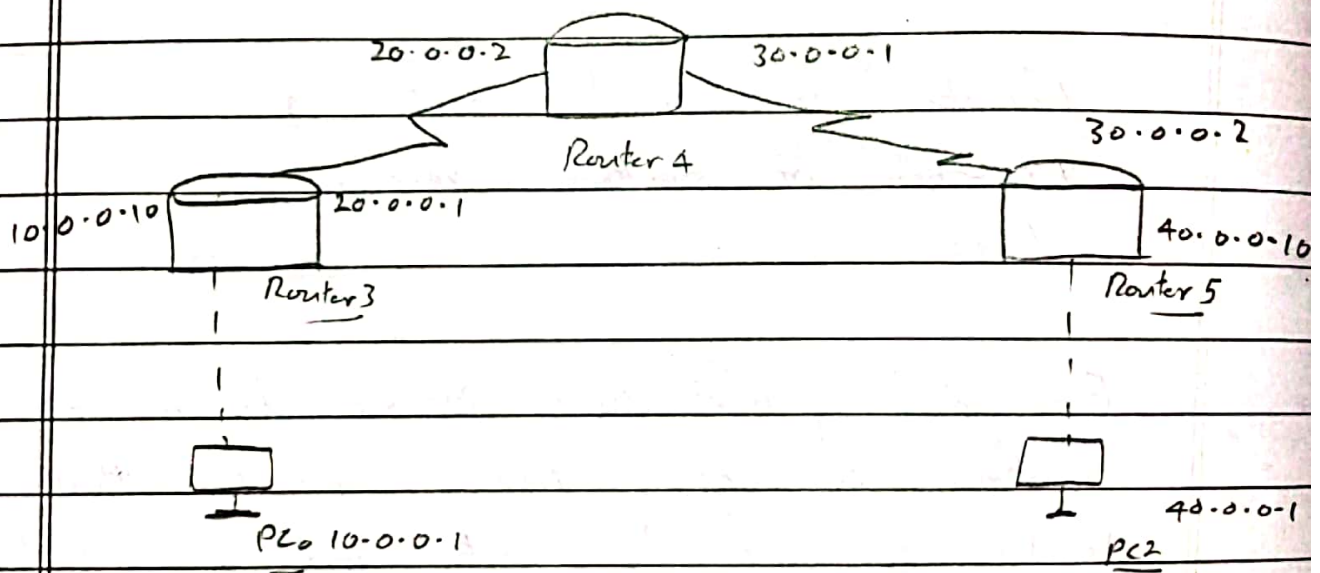


Ahmed AG

IBM18CS135

LAB-3Topology-Procedure

- i) Connect PC0, PC2 with Router0, Router2
- ii) Connect Router0 with Router1
- iii) Connect Router2 with Router1
- iv) Use Crossover-crossover for connection b/w the PC and Router.
- v) Use serial DCE for connecting b/w Router0.

## IP Configuration-

- i) Set the IP address for both the PC's along with the subnet mask and Default Gateway.
- ii) Configure the gateway for all the routers.
- iii) Check all the connections.
- iv) Now do ip routing for all the three available routers so as to specify the router's destination address and the ~~next~~ next the hop address.
- v) Send a ping from one of the PC's and check whether the packets are being received by the other PC.

## Observation-

- i) Once all the connections are done we tried doing the ping, but we got a message that host unreachable which means that the host is not connected.

ii) To for this we need to do Static Routing on all the routers.

iii) After doing Static routing we will be able to send data packets b/w PC's without any loss.

### • CLI Commands

i) For Router Configuration-

enable

conf t

interface fastethernet 0/0

ip address 10.0.0.10 255.0.0.0

no shut

exit

ii) For Static Routing for Router 3

enable

conf t

ip route 10.0.0.0 255.0.0.0 30.0.0.1

ip route 20.0.0.0 255.0.0.0 30.0.0.1



iii) Static Routing for Router 4

ip route 10.0.0.0 255.0.0.0 20.0.0.1

ip route 20.0.0.0 255.0.0.0 30.0.0.2

iv) Static Routing for Router 5

ip route 10.0.0.0 255.0.0.0 30.0.0.1

ip route 20.0.0.0 255.0.0.0 30.0.0.1