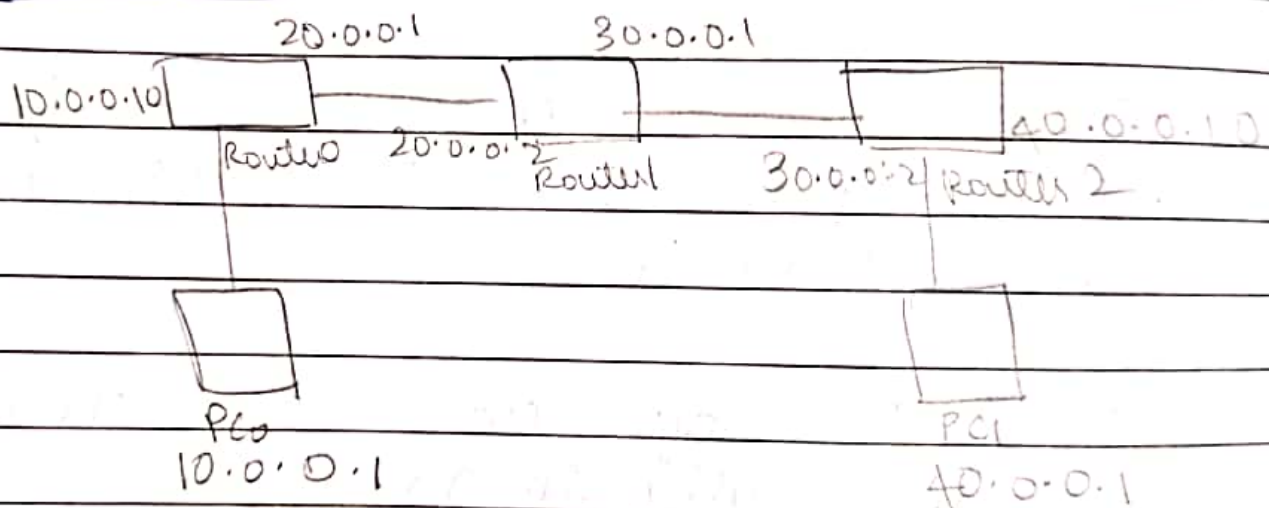


EXP-6.

9. Configuring RIP routing protocol in Router

Aim: Sending packets through 3 routers with RIP Routing protocol.

TOPOLOGY:



PROCEDURE: 1) Take 2 PCs connect them through 2 different routers and connect those two routers to another router.

2) Set PC0 address to 10.0.0.1 and PC1 to 40.0.0.1 with subnet mask 255.0.0.0

In the config → fastEthernet

3) Go to CLI & commands are given below

4) Go to PC0 config, gateway type the address given to interface routers

PC0 → 10.0.0.10 PC1 → 40.0.0.10

5) Go to PC and Desktop Command prompt type Ping 40.0.0.1 to send messages from PC to PC and vice versa.

CLI: Router 0 -

no → enable → Configt → interface fastethernet 0/0 →
ip address 10.0.0.10 255.0.0.0 → no shut →
exit → interface serial 2/0 → ip address
20.0.0.1 255.0.0.0 → encapsulation ppp →
clock rate 64000 → no shut → exit.

Router 1 -

no → enable → configt → interface ^{serial} fastethernet 2/0
→ ip address 20.0.0.2 255.0.0.0 → ~~no shut~~
encapsulation ppp → no shut → exit →
interface 'serial' 3/0 → ip address 30.0.0.1
255.0.0.0 → encapsulation ppp → clock
rate 64000 → no shut → exit.

Router 2 -

no → enable → configt → interface serial 2/0 →
ip address 30.0.0.2 255.0.0.0 →
encapsulation ppp → no shut → exit →
interface fastethernet 0/0 → ip address
40.0.0.10 255.0.0.0 → no shut → exit

To send messages with RIP routing

Router 0 - Config t → router rip →
network 10.0.0.0 → network 20.0.0.0

Router 1 - Config t → router rip →
network 20.0.0.0 → network 30.0.0.0

Router 2 - Config t → router rip →
network 30.0.0.0 → network 40.0.0.0

OBSERVATION: After all connections and
CLI commands successfully
pinged PC1 from PC0 and vice versa