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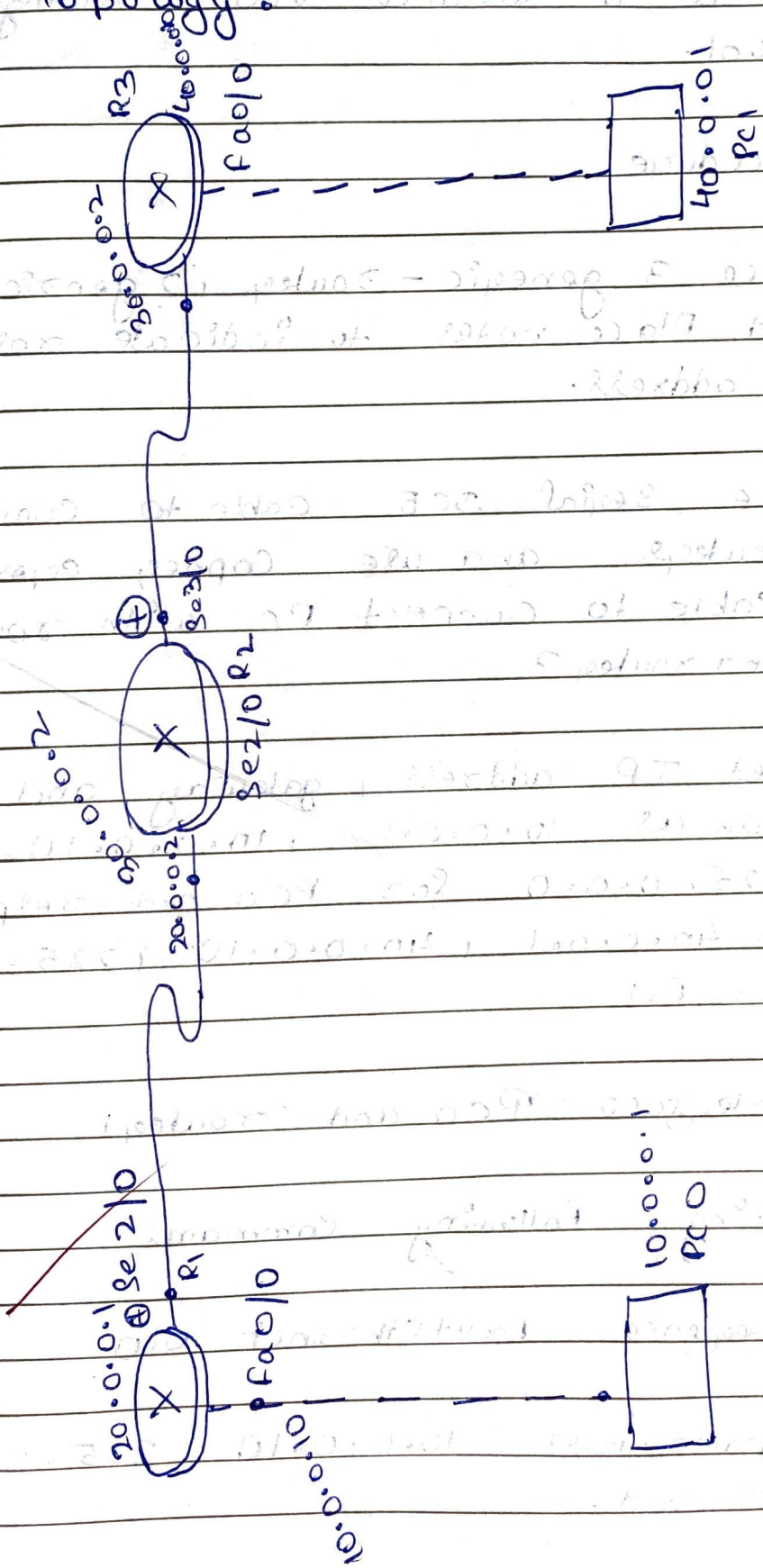
Lab - 05

Aim : Configuring RIP routing Protocol in routers.

Topology :-



* Rip is routing information Protocol which find shortest Path between source and destination network.

It is a distance vector routing Portcol.

Procedure

* Place 3 generic - routers, 2 genric - Pc and Place notes to indicate respective IP address.

* use serial DCE cable to connect routers and use copper cross over cable to connect PC with router1 and router3.

* Set IP address, gateway and Subnet mask as 10.0.0.1, 10.0.0.10, 225.0.0.0 for PC0 and respectively set 40.0.0.1, 40.0.0.10, 225.0.0.0 for PC1

* Interface PC0 and router1 using following commands

→ Interface fastethernet 0/0

→ Ipadaaddress 10.0.0.10 225.0.0.0

→ no shut.

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* For interfacing serial 2/0 of router 1 use following commands.

→ Interface Serial 2/0
→ ip address 20.0.0.1 225.0.0.0
→ encappulation PPP
→ Clock rate 64000
→ no shut

* Use above commands for interfacing router which has clock symbol in cable may to it and for other interfacing of routers use same above command except "clock rate 64000" command

* once all the green lights are visible, follow the commands below for each router.

→ router rip
→ network 10.0.0.0
→ network 20.0.0.0
→ exit

* Repeat above command's for router 2 and router 3 with respective network address

→ Observation

* Instead of using Static IP routing for all routers, by using using Rip, routing becomes easy when large numbers of routers are present.

Result :-

Pinging 10.0.0.1 with 32 bytes of data.

reply from 10.0.0.1 : byte = 32
reply from 10.0.0.1 bytes = 32
reply from 10.0.0.1 bytes = 32
reply from 10.0.0.1 bytes = 32

Ping statistics for 10.0.0.1
Packets : Sent = 4, received = 4,
lost = 0.

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