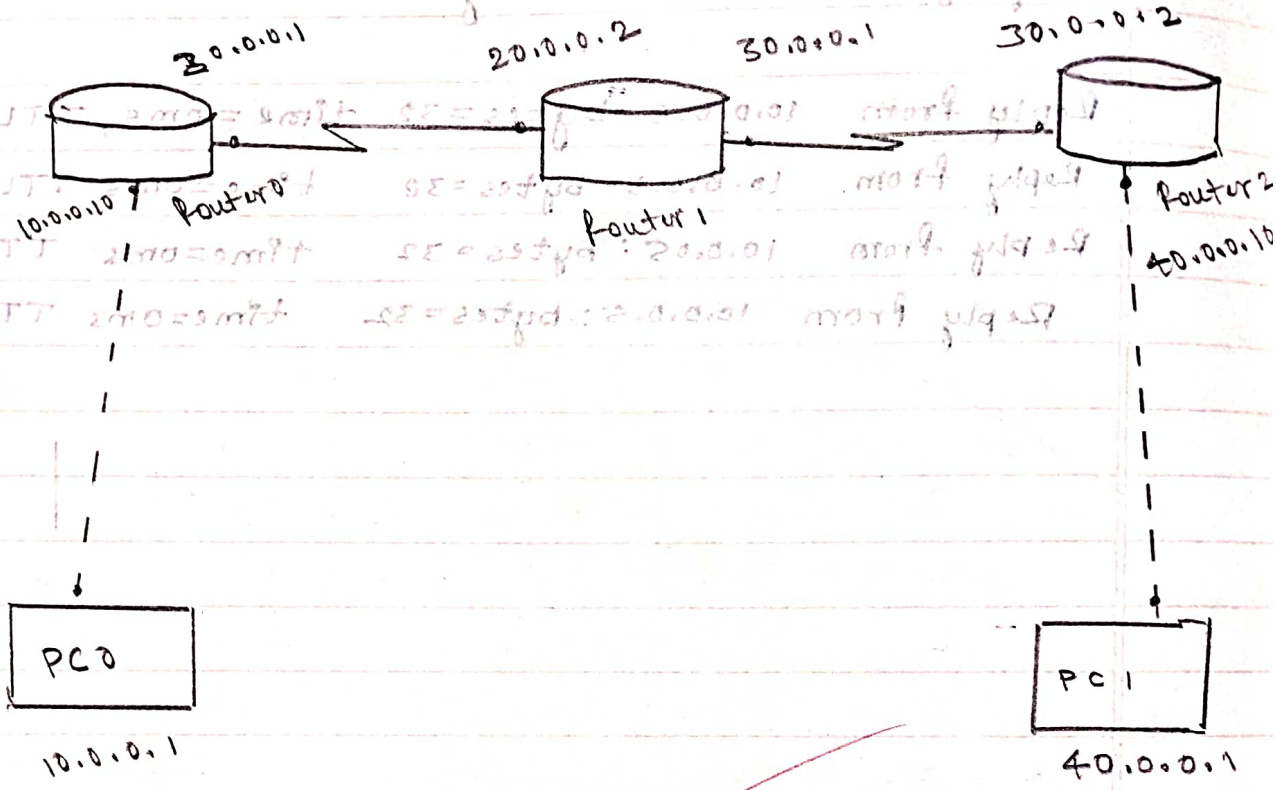
Topology:-


30.0.0.1
20.0.0.2
30.0.0.1
30.0.0.2
10.0.0.10
Router0
Router1
Router2
40.0.0.10
PC0
PC1
10.0.0.1
40.0.0.1

Lab-5

chandra's Dt: Pg:

Aim: Configuring RIP Routing protocol in Routers

Procedure:-

* Use 3 generic routers, 2 generic PC and place notes to indicate respective IP addresses
* Use serial DCE cable to connect routers and use copper cross cable to connect PC with router1 and router3
* Set IP addresses, gateway and subnet mask as 10.0.0.1, 10.0.0.10, 255.0.0.0 for PC0 set 40.0.0.1, 40.0.0.10, 255.0.0.0 for PC1
* Interface PC0 and router1
  → Interface Fastternet 0/0
  → ip addresses 20.0.0.10 255.0.0.0
  → no shut
* for Interfacing serial 2/0 of router 1
  → Interface serial 2/0
  → encapsulation ppp
  → clock rate 64000
  → no shut
* Use above commands for interfacing router which has clock symbol in cable near to it and for other interfaces of routers use same above command except "clockrate 64000"
* Once all the lights are turned green follow the commands below. to each router
  → router rip
  → network 10.0.0.0
  → network 20.0.0.0
  → exit

chandra's
Dt: Pg:

* Repeat the same command for router 2 and router 3

* Observation

Use IP routing becomes easy when large number 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 byte=32
reply from 10.0.0.1 byte=32
reply from 10.0.0.1 byte=32

ping statistics for 10.0.0.1
packets ; sent=4, received=4, lost=0

Raw
21-12-2021