Experiment - 11b

Aim:

To simulate RIP using CISCO Packet Tracer

Procedure:

1) Create network as using 3 PCs & 3 routers as shown in image.
2) Assign IP address for the PCs & router ports.

PC0
IP - 10.1.1.1
Gateway : 10.1.1.2

PC1
IP - 200.1.1.1
Gateway - 200.1.1.2

PC2
IP - 222.2.2.2
Gateway - 222.2.2.12

Router 3
gig 0/0 - 20.1.1.1
0/1 - 192.68.1.1
0/2 - 10.1.1.1

Router 2
gig 0/0 - 20.1.1.2
0/1 - 172.1.1.1
0/2 - 200.1.1.2

Router 1
gig 0/0 - 192.168.1.3
0/1 - 172.1.1.2
0/2 - 217.1.1.1

Router 4:

gig 0/0 - 21.1.1.2

0/1 - 222.2.2.12

3) click on router 3

-> click config -> RIP

-> Enter network - 10.0.0.0 -> Add

-> " " 20.0.0.0 -> Add

-> " " 192.168.1.0 -> Add

This step is done inorder to add the neighboring network address for router 3

4) Do same for Router 2, 1 & 4

Router 2 -> config -> RIP

-> 20.0.0.0 - add

-> 172.1.0.0 - add

-> 200.1.1.0 - add

router 4 -> config -> RIP

-> 21.1.1.0 - add

-> 222.2.2.0 - add

5) Now to display the routing table click a router

-> then on CLI type the command

exit

exit

show ip route

o/p:

R 10.0.0.0/8 via 192.168.1.1 gig 0/0

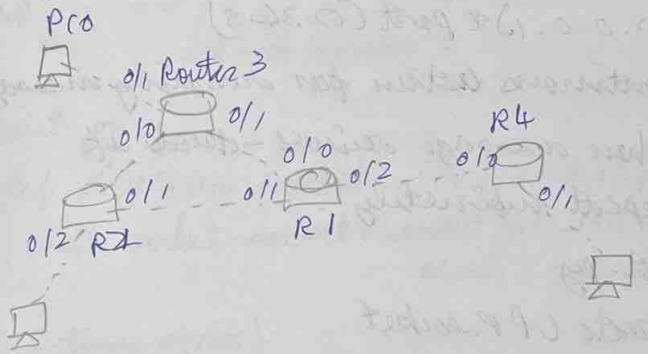
R 20.0.0.0/8 via 192.168.1.1 gig 0/0

C 172.1.0.0/16 is variable connected 2 subnet 2 mask

C 172.1.0.0/16 is directly connected gig 0/1

L 172.1.1.2/32 is directly connected gig 0/1

Diagram:



Result:

Thus RIP is simulated using Cisco packet tracer successfully.