11b

12/9/24

RIP

Aim:

To simulate RIP using CISCO Packet Tracer

Procedure

1) Create networks using 3PC, 4 routers as shown in image

2) Design IP address for the PC 4 router ports

PC 0

IP - 10.1.1.1

Gateway - 10.1.1.2

PC 1

IP: 200.1.1.1

Gateway: 200.1.1.2

PC 2

IP 222.2.2.2

Gateway - 222.2.2.12

Router 3

0/0 - 20.1.1.1

0/1 - 192.168.1.1

0/2 - 10.1.1.1

Router 2

0/0 - 20.1.1.2

0/1 - 172.1.1.1

0/2 - 200.1.1.2

Router 1

0/0 - 192.168.1.3

0/1 - 172.1.1.2

0/0 - 217.1.1.1

Router 4

0/0 - 217.1.1.2

0/1 - 222.2.2.12

3. Click on router 3

→ Click Config → RIP

→ Enter network 10.0.0.0 → add

→ Enter Network 200.0.0.0 → add

→ Enter Network 192.168.1.0 → add

Thus step is done inside to add the neighbouring network address for routers

4) Do same for Routers 2, 1, 2, 3, 4

Router 2 → config → RIP
→ 20.0.0.0 — add
→ 172.1.0.0 → add
→ 200.1.1.0 → add

Router 1 → Config → RIP
→ 172.1.0.0 — add
→ 192.168.1.0 — add
→ 217.1.1.0 — add

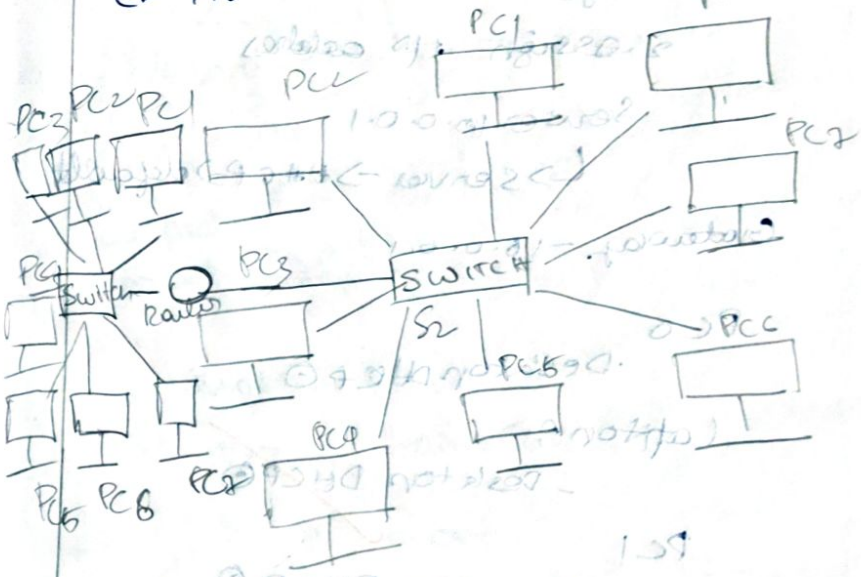
Router 4 → config — RIP.
→ 217.1.1.0 — add
→ 222.2.2.0 — add

5 Now to display the routing table

Click on router.
→ then on CLI type the command
exit
exit
show ip route

Output

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
172.1.0.0/16 is variable connected 2 subnet 2 mask
C — 172.1.0.0/16 is directly connected gig 0/1
C — 172.1.1.2/32 is directly connected gig 0/1



Result:

Then RIP is stimulated using CISCO Packet Tracer successfully