PRANAV JAGADEESH IBM18CS071 PROGRAM 5 DNS

RIP Configuring : For serial type of conn^n encapsulation command
This helps to add all neighbours routers information in a router.
It adds information to its routers configuring.
It is a distance vector routing protocol.
Maximum devices which can be configured is 15.
Take 3 routers, 2 PC's.
connection b/w routers serial cable is used DCE
Take 2 PC's (PC0, PC1), 3 routers (R_0, R_1, R_2)
Router port for cable serial ports
In R_0 – CLI → enable → config terminal →
~~interface fa 0/0 10.0.0.1 255.0.0.0~~
interface fa0/0
ip address 10.0.0.1 255.0.0.0
no shutdown → interface se2/0
ip address 20.0.0.2 255.0.0.0
encapsulation ppp
clock rate 64000 → no shutdown → exit
Router - 1 → ~~en~~ n → enable → config terminal →
interface se2/0 → ip address 20.0.0.2 255.0.0.0
→ encapsulation ppp → clock rate 64000 →
no shutdown → exit.
interface se3/0 → ip address 30.0.0.1 255.0.0.0
→ encapsulation ppp → clock rate 64000 → no shutdown
→ exit.
Router 3 :- CLI → n → enable → config terminal →
interface se3/0 → ip address 30.0.0.2 255.0.0.0
→ encapsulation ppp → ~~clock~~ clock rate 64000 → no shutdown
→ exit.
interface 0/0 → ip address 40.0.0.1 255.0.0.0
→ no shutdown → exit
If the interface which has clock symbol there we have to give clock rate.

To config RIP protocal

R1 → CLI → enable → config terminal → ~~router rip~~ router rip → network 10.0.0.0 → network 20.0.0.0 → exit.

R2 → CLI → enable → config terminal → router rip → → network 20.0.0.0 → network 30.0.0.0 → exit

R3 → CLI → enable → config terminal → router rip → → network 30.0.0.0 → network 40.0.0.0 → exit.

~~A RIP~~ Routers collect routing info from all other routers

PC0 → show ip route → subnet 255.0.0.0

PC0 → FE → IPV4 → 10.0.0.10 → gateway 10.0.0.1

PC1 → FE0 → IPV4 → 40.0.0.10 → subnet 255.0.0.0.

gateway 40.0.0.1

PC0 → desktop → comd → ping 40.0.0.1