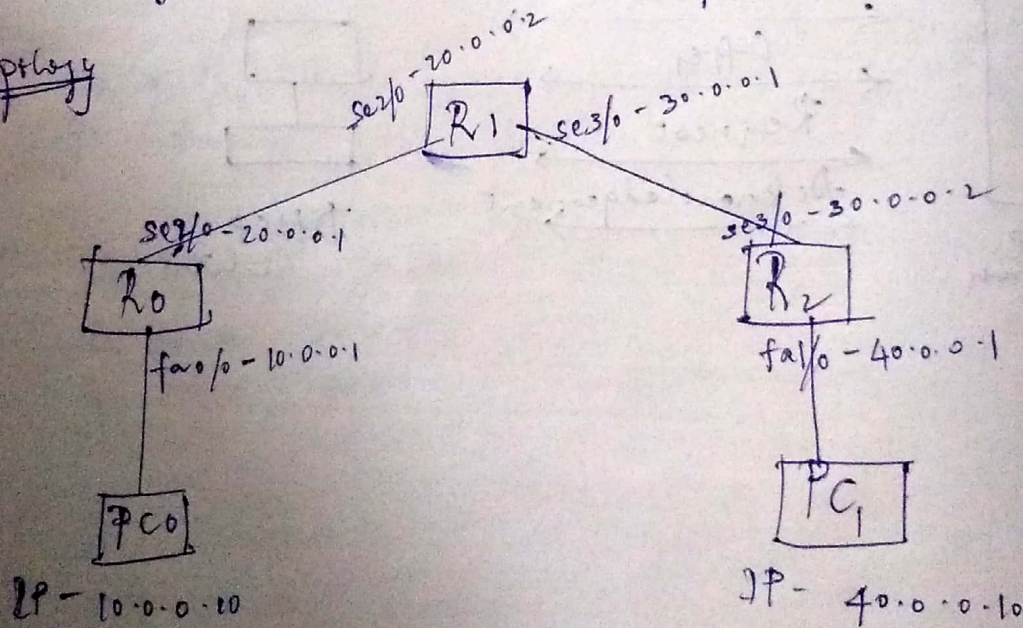## Lab - 5.

Configuring RIP Routing Protocol on Routers

RIP — Routing Information Protocol.

→ Is a dynamic routing protocol which uses hop count to find best path b/w src & destination via

→ It is a distance vector routing protocol.

→ Works on Application layer

→ It knows only neighbours but not the entire topology.

→ It updates routing info every 30 seconds.

Routing Metric here is Hop count

Topology

Configuring It address for Interfaces

→ Router - 0
  #Interface fa0/0
  # ip address 10.0.0.1 255.0.0.0
  #no shutdown
  #exit

#interface se2/0
#ip address 20·0·0·1 255·0·0·0
encapsulation PPP
clock rate 64000
no shutdown
#exit

→ Same configuration is done for R_1 and R_2
→ encapsulation PPP is done for serial interfaces only
→ clock rate is done for clock interfaces only

Configuring RIP to all routers

→ Router - 0

#router rip
#network 10·0·0·0
#network 20·0·0·0
#exit

Same configuration is done for R1 and R2
with networks:

20·0·0·0 | 30·0·0·0   ⇒ R_1
30·0·0·0 | 40·0·0·0   → R2