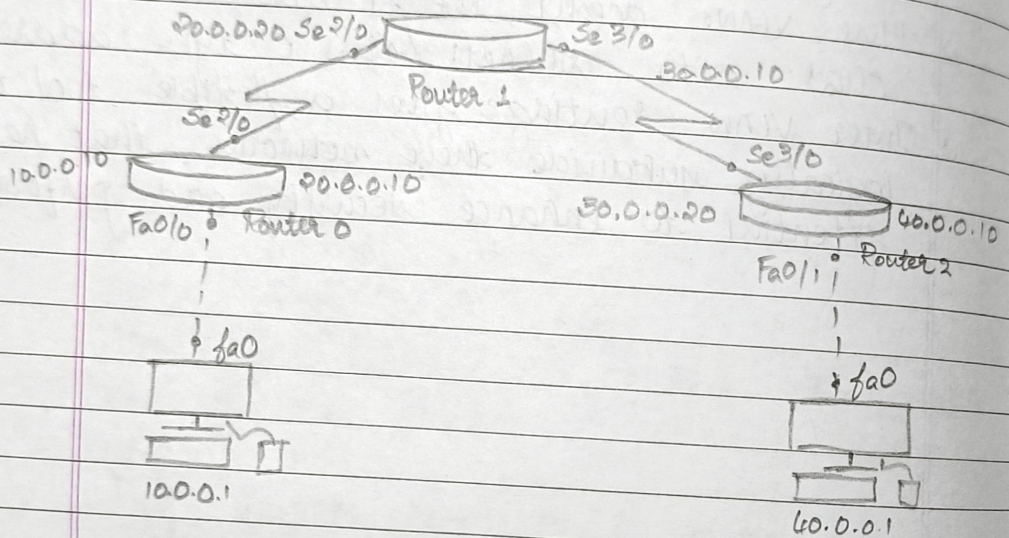


## LAB-10

AIM -

Demonstrate the TTL / life of a packet

TOPOLOGY :



PROCEDURE -

- Create a topology as shown above with two PCs and 3 routers.
- Set the IP address and gateway for both PCs.
- Configure the routers either static/default routing way.
- In simulation mode send a single PDU from one PC to another.
- Use capture button to capture every transfer.
- Click on the PDU during every transfer to see the inbound & outbound PDU details.



OUTPUT:

IP		16		19		31	
0	4	8	16				
4		IHL		DSCP		TL: 28	
ID: 0x6				0x		0x0	
TTL: 255		PRO: 0x1		CHKSUM			
SRC IP: 10.0.0.1							
DST IP: 40.0.0.1							
OPT 0x0						0x0	
DATA (VARIABLE LENGTH)							

### OBSERVATION-

- OBSERVATION:-
- The no. of hops the packet travel before being discarded as TTL
- Datagram's TTL field is set by the sender & reduced by each router along the path to its destination.
- The router reduces TTL value by one while forwarding the packets
- When the TTL value is 0, the router discards it & sends an ICMP message.