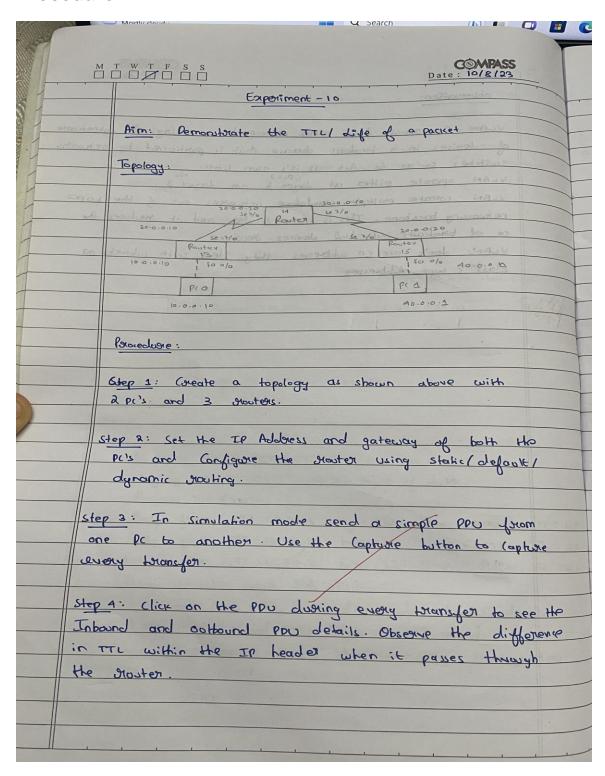
### **LAB PROGRAM -10**

# Q) Demonstrate the TTL/ Life of a PacketTopology

#### **Procedure:**



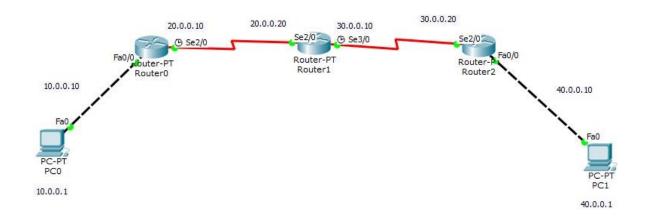
| M T W T F S S  |  | Date: 1c                                    | Date: 10/8/23                                     |  |
|--|--|---|---|--|
| V_   | output:  | Al-Immirron-I                               |   |  |
| 1  |  |   |   |  |
| 1  | IP header: (P( 0) (In burd)  |   | m7A   |  |
| 1  | 0 4 9  |   |   |  |
| +  | 4 INL DSCP:  | 16 19 31                                    | bits  |  |
|  | ID:0x7   | TL: 28                                      | W.  |  |
|  | TTL: 255) PRO: 0×1   | CMKCONA                                     |   |  |
|  | SPC IP: 10.0.0.1   |   |   |  |
|  | 0ST IP: 40.0.0.1   |   | 1/10  |  |
|  | OPT: ONO   | 0×0   |   |  |
|  | DATA (Vaviab   |   |   |  |
|  |  |   |   |  |
|  | IP headen: (Rooten a) (out bound)  |   |   |  |
|  | ( SUF BESRA)   |   |   |  |
|  | La Inbound IP headen for monter o will Jook the same as above  |   |   |  |
|  | 1 0 4 8 16 19 31 154   |   |   |  |
|  | 4 INL DSCP:  | TL: 88                                      | 0115  |  |
|  | ID: 0×6  |   | Cascolist (                                       |  |
| 95.  |  |   | N.  |  |
|  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |   |   |  |
|  | DST TP: 40.0.0.1   |   |   |  |
|  | 0  | 0 6   | 4   |  |
|  | OPT: OKO   |   |   |  |
| DATA (vouiable length)   |  |   |   |  |
| (in A y ( o 3 some ) a rece ( o doing word)                          |  |   |   |  |
| -> Similar supsolts our seen for the other 2 snouters and Pc.        |  |   |   |  |
|  |  | 900000                                      | Oracles one ic.                                   |  |
|  |  |   |   |  |
| observation: Nies states less 2 39 9500 18 gets                      |  |   |   |  |
| (2 gots or sords of ) decolorate                                     |  |   |   |  |
| TITL: time to live indicates the no of hops the packet can           |  |   |   |  |
| large 1 1/2 and 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                |  |   |   |  |
| toravel before it is discorded by the stouter to prevent a particle  |  |   |   |  |
| from towelling Aimlesty within the network. This field is set by the |  |   |   |  |
| in lay & received 6. 1 h. the uniter it passes through when the      |  |   |   |  |
| TTL=0, the shouter, discords the packet, and sends, ICMP message     |  |   |   |  |
| to Survey of states of states  |  |   |   |  |
| Je<br>Je<br>TT   | TTL: time to live indicate property is discount from the travelling Aimlesty will also to the travelling Aimlesty will be the travelling to the travelling t | bed by the Mouter to thin the network. This | e packet can prevent a pocked field is set by the |  |

# **Topology:**

## **Configurations:**

Configure the devices as per static / default / dynamic routing.

(Below has been done using static routing)



# Output:

### **PDU Details:**

Simple PDU sent from PC0 to PC1 in simulation mode.

