## Program 7
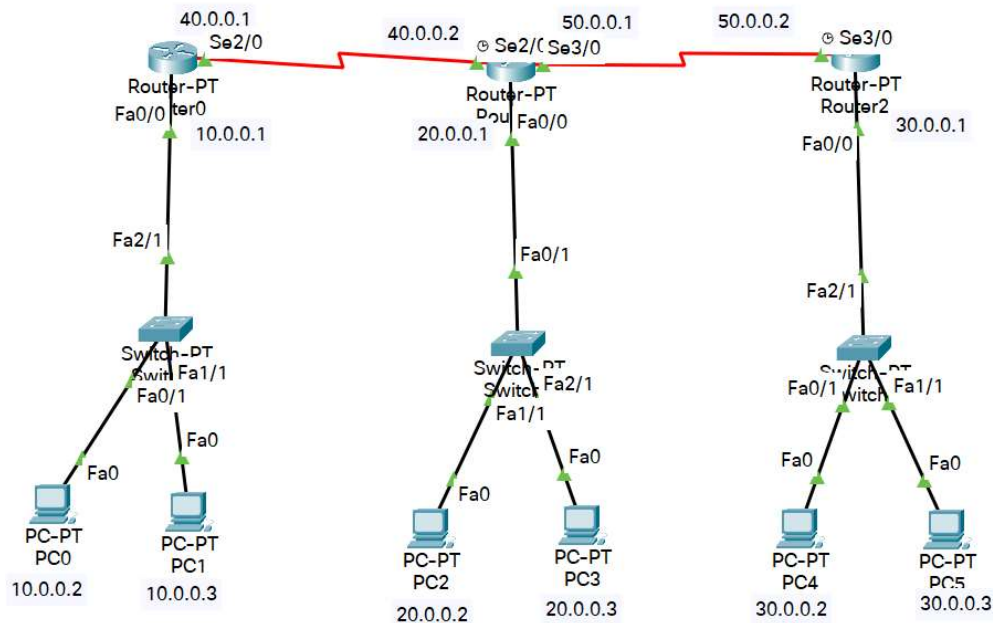
i.   Demonstrate the TTL/ Life of a Packet

ii.  Procedure along with the topology



iii. Screen shots/ output

Packet at Router0

## Packet at Router1

**PDU Information at Device: Router1**

OSI Model    Inbound PDU Details    Outbound PDU Details

PDU Formats

IP

| 0 | 4 | 8 | 16 | 20 | 24 | Bits |
|---|---|---|---|---|---|---|
| VER:4 | IHL:5 | DSCP:0x00 | | TL:28 | | |
| | ID:0x0005 | | FLAGS: 0x0 | FRAG OFFSET:0x000 | | |
| TTL:254 | | PRO:0x01 | | CHKSUM | | |
| | | SRC IP:10.0.0.2 | | | | |
| | | DST IP:30.0.0.2 | | | | |
| | | DATA (VARIABLE LENGTH) | | | | |

ICMP

| 0 | 8 | 16 | Bits |
|---|---|---|---|
| TYPE:0x08 | CODE:0x00 | CHECKSUM | |
| ID:0x0003 | | SEQ NUMBER:5 | |

**PDU Information at Device: Router1**

OSI Model    Inbound PDU Details    Outbound PDU Details

PDU Formats

IP

| 0 | 4 | 8 | 16 | 20 | 24 | Bits |
|---|---|---|---|---|---|---|
| VER:4 | IHL:5 | DSCP:0x00 | | TL:28 | | |
| | ID:0x0005 | | FLAGS: 0x0 | FRAG OFFSET:0x000 | | |
| TTL:253 | | PRO:0x01 | | CHKSUM | | |
| | | SRC IP:10.0.0.2 | | | | |
| | | DST IP:30.0.0.2 | | | | |
| | | DATA (VARIABLE LENGTH) | | | | |

ICMP

| 0 | 8 | 16 | Bits |
|---|---|---|---|
| TYPE:0x08 | CODE:0x00 | CHECKSUM | |
| ID:0x0003 | | SEQ NUMBER:5 | |

## Packet at Router2

**PDU Information at Device: Router2**

OSI Model    Inbound PDU Details    Outbound PDU Details

PDU Formats

IP

| 0 | 4 | 8 | 16 | 20 | 24 | Bits |
|---|---|---|---|---|---|---|
| VER:4 | IHL:5 | DSCP:0x00 | | TL:28 | | |
| | ID:0x0005 | | FLAGS: 0x0 | FRAG OFFSET:0x000 | | |
| TTL:253 | | PRO:0x01 | | CHKSUM | | |
| | | SRC IP:10.0.0.2 | | | | |
| | | DST IP:30.0.0.2 | | | | |
| | | DATA (VARIABLE LENGTH) | | | | |

ICMP

| 0 | 8 | 16 | Bits |
|---|---|---|---|
| TYPE:0x08 | CODE:0x00 | CHECKSUM | |
| ID:0x0003 | | SEQ NUMBER:5 | |

**PDU Information at Device: Router2**

OSI Model    Inbound PDU Details    Outbound PDU Details

PDU Formats

IP

| 0 | 4 | 8 | 16 | 20 | 24 | Bits |
|---|---|---|---|---|---|---|
| VER:4 | IHL:5 | DSCP:0x00 | | TL:28 | | |
| | ID:0x0005 | | FLAGS: 0x0 | FRAG OFFSET:0x000 | | |
| TTL:252 | | PRO:0x01 | | CHKSUM | | |
| | | SRC IP:10.0.0.2 | | | | |
| | | DST IP:30.0.0.2 | | | | |
| | | DATA (VARIABLE LENGTH) | | | | |

ICMP

| 0 | 8 | 16 | Bits |
|---|---|---|---|
| TYPE:0x08 | CODE:0x00 | CHECKSUM | |
| ID:0x0003 | | SEQ NUMBER:5 | |