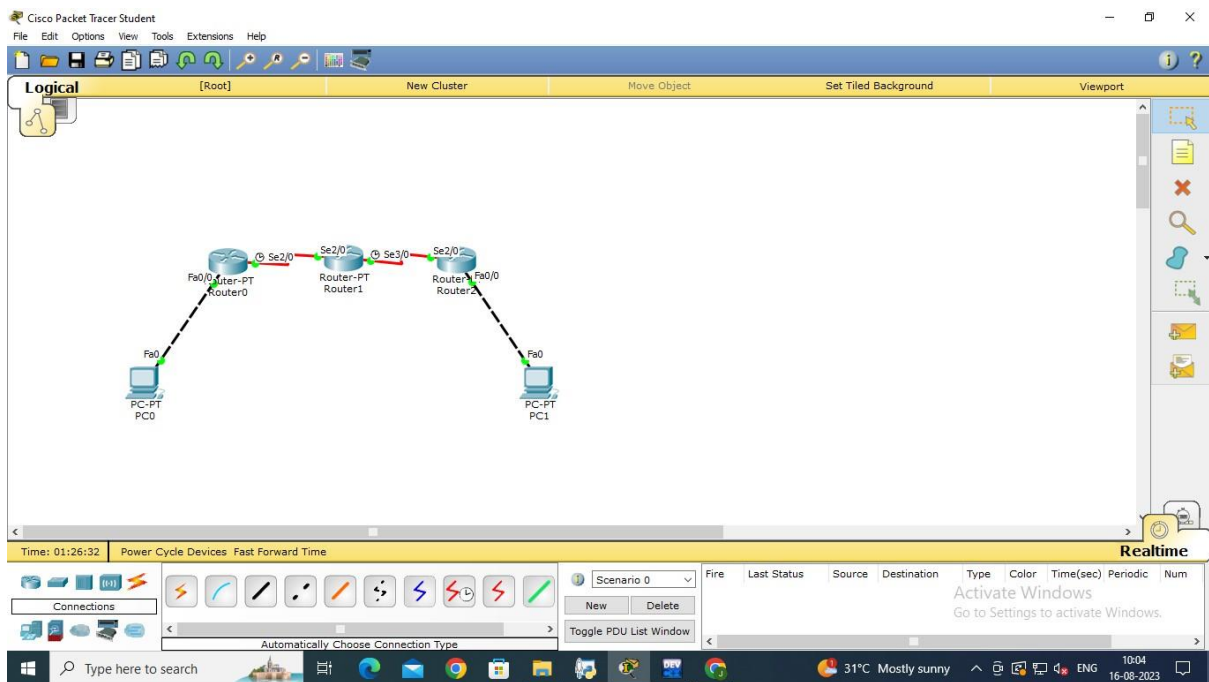


EXPERIMENT-8

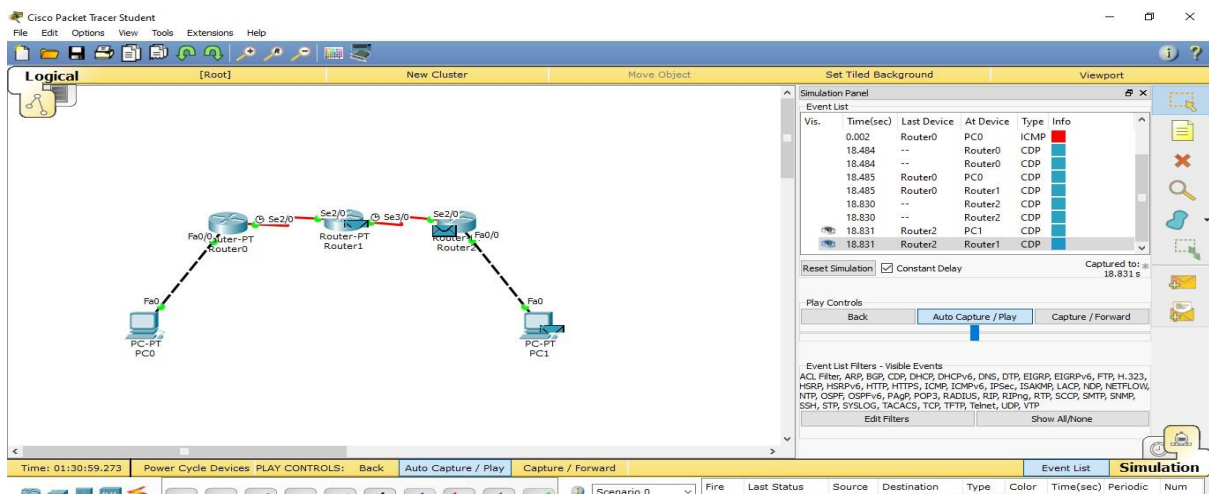
TITLE: Demonstrate the TTL/ Life of a packet

AIM: To demonstrate the TTL through stimulation

TOPOLOGY:



STIMULATION RESULTS:



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Simulation Panel

PDU Information at Device: Router0

OSI Model Outbound PDU Details

PDU Formats

0		4		8		12		16		20		24		28		32	
PREAMBLE:		101010...1011		DEST MAC:		0040.0B49.2365		SRC MAC:		0090.0C80.94EE							
TYPE:		0x800		DATA (VARIABLE LENGTH)										FCS:		0x0	

IP

0		4		8		12		16		20		24		28		32	
IHL:		0x0		DSCP:		0x0		TL:		56							
ID:		0x6				0x0		0x0									
TTL:		255		PRO:		0x1		CHKSUM									
SRC IP: 10.0.0.1																	
DST IP: 10.0.0.10																	
OPT: 0x0																	
DATA (VARIABLE LENGTH)																	

ICMP

0		8		16		24		32	
TYPE:		0x3		CODE:		0x1		CHECKSUM	
ID:		0xc						SEQ NUMBER: 0	

Simulation Panel

Time(sec)	Last Device	At Device	Type	Info
0.000	--	PC0	ICMP	
0.001	PC0	Router0	ICMP	
0.001	--	Router0	ICMP	
0.002	Router0	PC0	ICMP	
2.451	--	Router0	CDP	
2.451	--	Router0	CDP	

Simulation

Source Destination Type Color Time(sec) Periodic Num

PC0 PC1 ICMP 0.000 N 0

Go to Settings to activate Windows.

New Cluster Move

PDU Information at Device: Router1

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

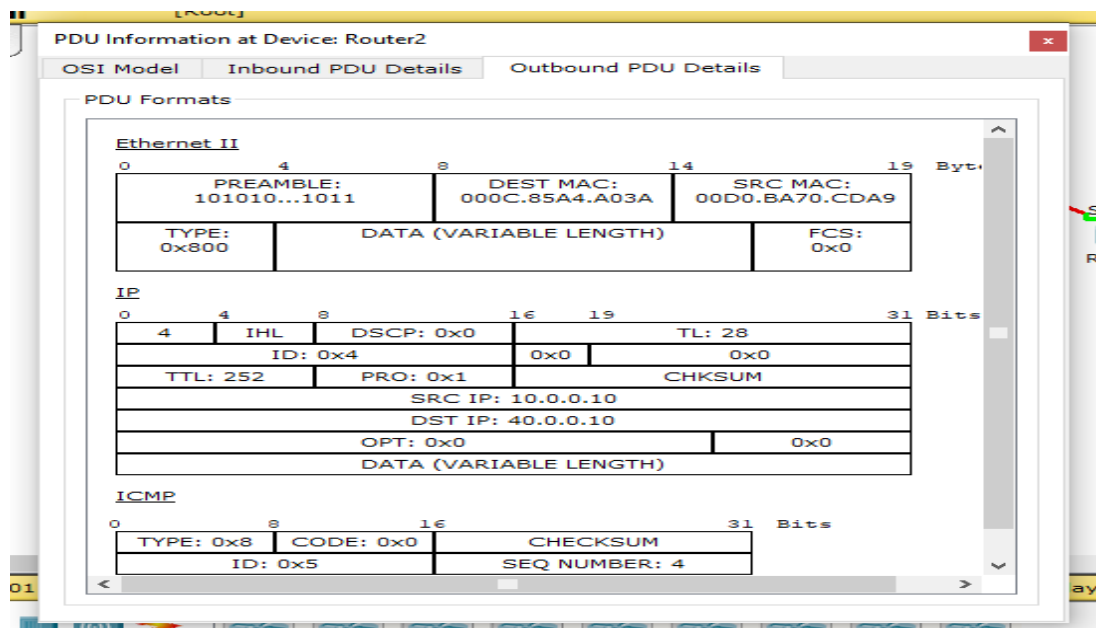
0		8		16		24		32		40		48		56		64	
FLG:		0111		ADR:		0xff		CTR:		0x3		PROTOCOL:		0x21		LCP: (VARIABLE LENGTH)	
FCS:		0x0															

IP

0		4		8		12		16		20		24		28		32	
IHL:		0x0		DSCP:		0x0		TL:		28							
ID:		0x4				0x0		0x0									
TTL:		253		PRO:		0x1		CHKSUM									
SRC IP: 10.0.0.10																	
DST IP: 40.0.0.10																	
OPT: 0x0																	
DATA (VARIABLE LENGTH)																	

ICMP

0		8		16		24		32	
TYPE:		0x8		CODE:		0x0		CHECKSUM	
ID:		0x5						SEQ NUMBER: 4	



PING RESULTS (in CMD):

```

Command Prompt

Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.10

Pinging 40.0.0.10 with 32 bytes of data:

Reply from 40.0.0.10: bytes=32 time=25ms TTL=125
Reply from 40.0.0.10: bytes=32 time=10ms TTL=125
Reply from 40.0.0.10: bytes=32 time=10ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125

Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 25ms, Average = 11ms

PC>
  
```