EXPERIMENT 7: Demonstrate the TTL/ Life of a Packet
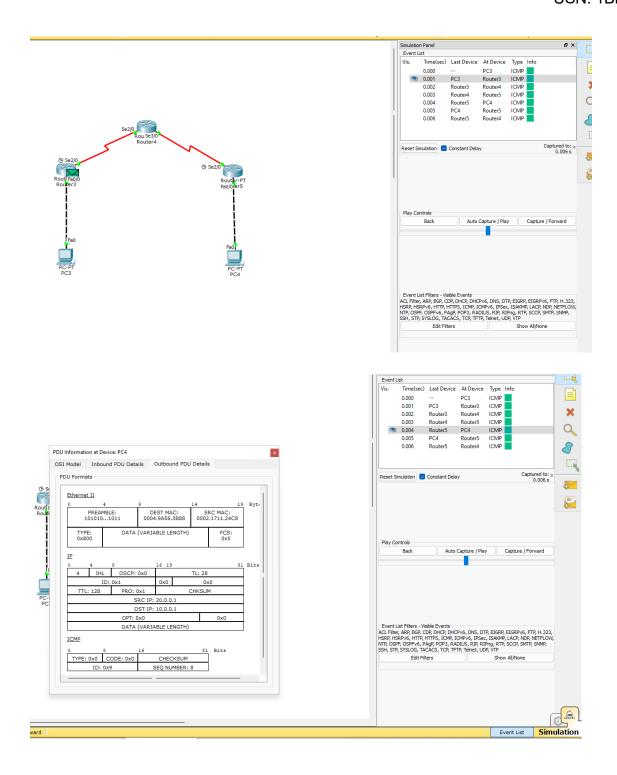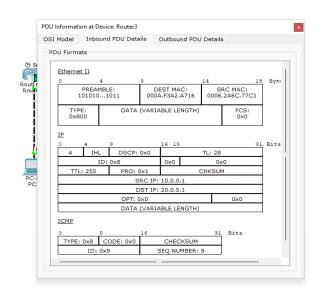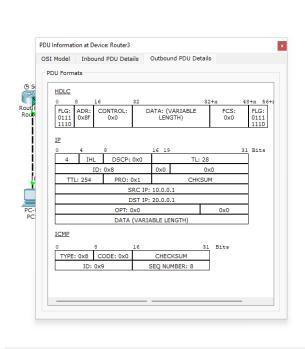
NAME: VARUN RAJ S
USN: 1BM21CS264

First screenshot

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	PC3	ICMP	
👁	0.001	PC3	Router3	ICMP	
	0.002	Router3	Router4	ICMP	
	0.003	Router4	Router5	ICMP	
	0.004	Router5	PC4	ICMP	
	0.005	PC4	Router5	ICMP	
	0.006	Router5	Router4	ICMP	

Reset Simulation   ☑ Constant Delay   Captured to: 0.006 s

Play Controls

Back | Auto Capture / Play | Capture / Forward

Event List Filters - Visible Events
ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, LACP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP

Edit Filters | Show All/None

PDU Information at Device: Router3

OSI Model | Inbound PDU Details | Outbound PDU Details

PDU Formats

Ethernet II

0	4	8	14	19	Byt
PREAMBLE: 101010...1011		DEST MAC: 000A.F3A2.A716	SRC MAC: 0006.2A6C.77C1		
TYPE: 0x800		DATA (VARIABLE LENGTH)		FCS: 0x0	

IP

0	4	8	16	19		31 Bits
4	IHL	DSCP: 0x0		TL: 28		
ID: 0x8			0x0		0x0	
TTL: 255		PRO: 0x1		CHKSUM		
SRC IP: 10.0.0.1						
DST IP: 20.0.0.1						
OPT: 0x0				0x0		
DATA (VARIABLE LENGTH)						

ICMP

0	8	16	31 Bits
TYPE: 0x8	CODE: 0x0	CHECKSUM	
ID: 0x9		SEQ NUMBER: 8	

Second screenshot

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	PC3	ICMP	
👁	0.001	PC3	Router3	ICMP	
	0.002	Router3	Router4	ICMP	
	0.003	Router4	Router5	ICMP	
	0.004	Router5	PC4	ICMP	
	0.005	PC4	Router5	ICMP	
	0.006	Router5	Router4	ICMP	

Reset Simulation   ☑ Constant Delay   Captured to: 0.006 s

Play Controls

Back | Auto Capture / Play | Capture / Forward

Event List Filters - Visible Events
ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, LACP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP

Edit Filters | Show All/None

Forward

Event List | **Simulation**

PDU Information at Device: Router3

OSI Model | Inbound PDU Details | Outbound PDU Details

PDU Formats

HDLC

0	8	16	32	32+x	48+x	56+x
FLG: 0111 1110	ADR: 0x8f	CONTROL: 0x0	DATA: (VARIABLE LENGTH)	FCS: 0x0	FLG: 0111 1110	

IP

0	4	8	16	19		31 Bits
4	IHL	DSCP: 0x0		TL: 28		
ID: 0x8			0x0		0x0	
TTL: 254		PRO: 0x1		CHKSUM		
SRC IP: 10.0.0.1						
DST IP: 20.0.0.1						
OPT: 0x0				0x0		
DATA (VARIABLE LENGTH)						

ICMP

0	8	16	31 Bits
TYPE: 0x8	CODE: 0x0	CHECKSUM	
ID: 0x9		SEQ NUMBER: 8	

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	PC3	ICMP	
	0.001	PC3	Router3	ICMP	
	0.002	Router3	Router4	ICMP	
	0.003	Router4	Router5	ICMP	
	0.004	Router5	PC4	ICMP	
	0.005	PC4	Router5	ICMP	
	0.006	Router5	Router4	ICMP	

Reset Simulation   ☑ Constant Delay   Captured to: 0.006 s

Play Controls

Back   Auto Capture / Play   Capture / Forward

Event List Filters - Visible Events
ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, LACP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP

Edit Filters   Show All/None

PDU Information at Device: PC4

OSI Model | Inbound PDU Details | Outbound PDU Details

PDU Formats

Ethernet II

| | 0 | 4 | 8 | 14 | 19 | Byt. |

| PREAMBLE: 101010...1011 | DEST MAC: 0002.1711.24C8 | SRC MAC: 0004.9A56.3B88 |
| TYPE: 0x800 | DATA (VARIABLE LENGTH) | FCS: 0x0 |

IP

| 0 | 4 | 8 | 16 | 19 | 31 | Bits |

4	IHL	DSCP: 0x0		TL: 28
ID: 0x8		0x0	0x0
TTL: 252	PRO: 0x1	CHKSUM
SRC IP: 10.0.0.1
DST IP: 20.0.0.1
OPT: 0x0		0x0
DATA (VARIABLE LENGTH)

ICMP

| 0 | 8 | 16 | 31 | Bits |

| TYPE: 0x8 | CODE: 0x0 | CHECKSUM |
| ID: 0x9 | SEQ NUMBER: 8 |

Time: 24:55:01.257   Power Cycle Devices   PLAY CONTROLS: Back   Auto Capture / Play   Capture / Forward

Event List   **Simulation**

PC-C PC-D

Rout Rout