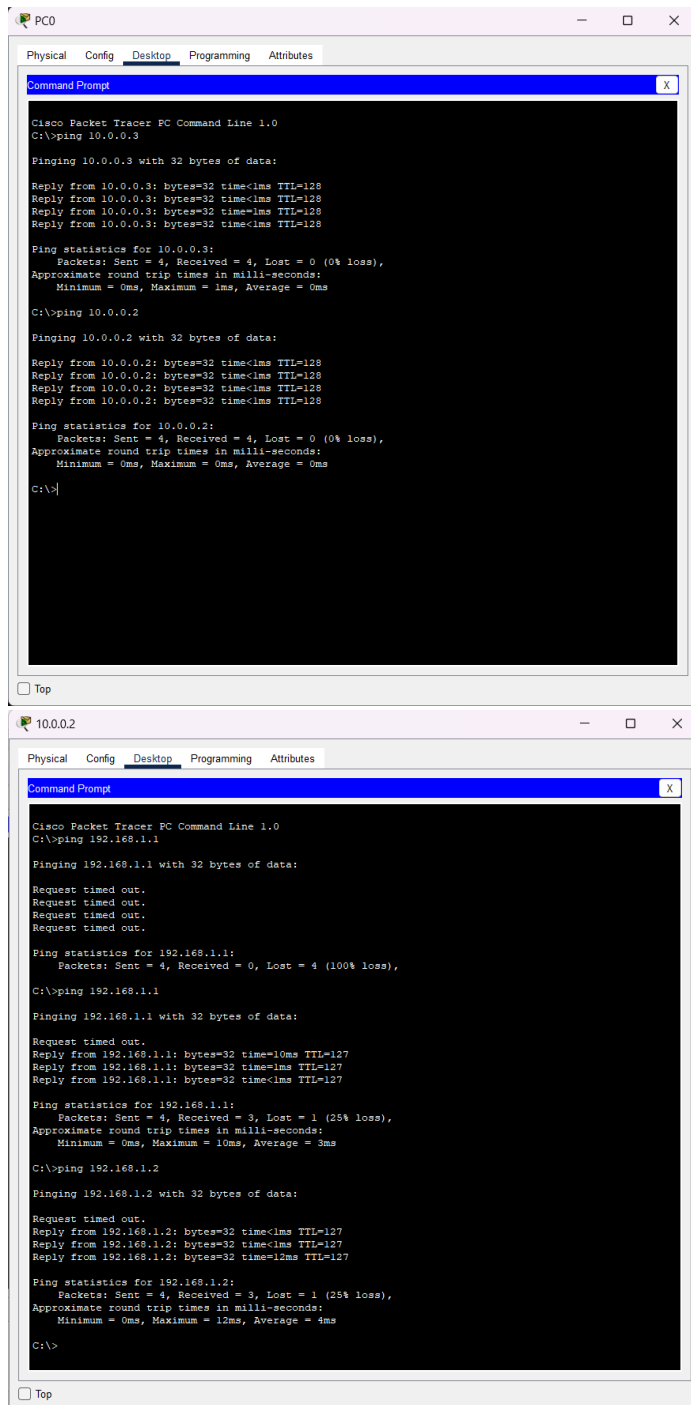
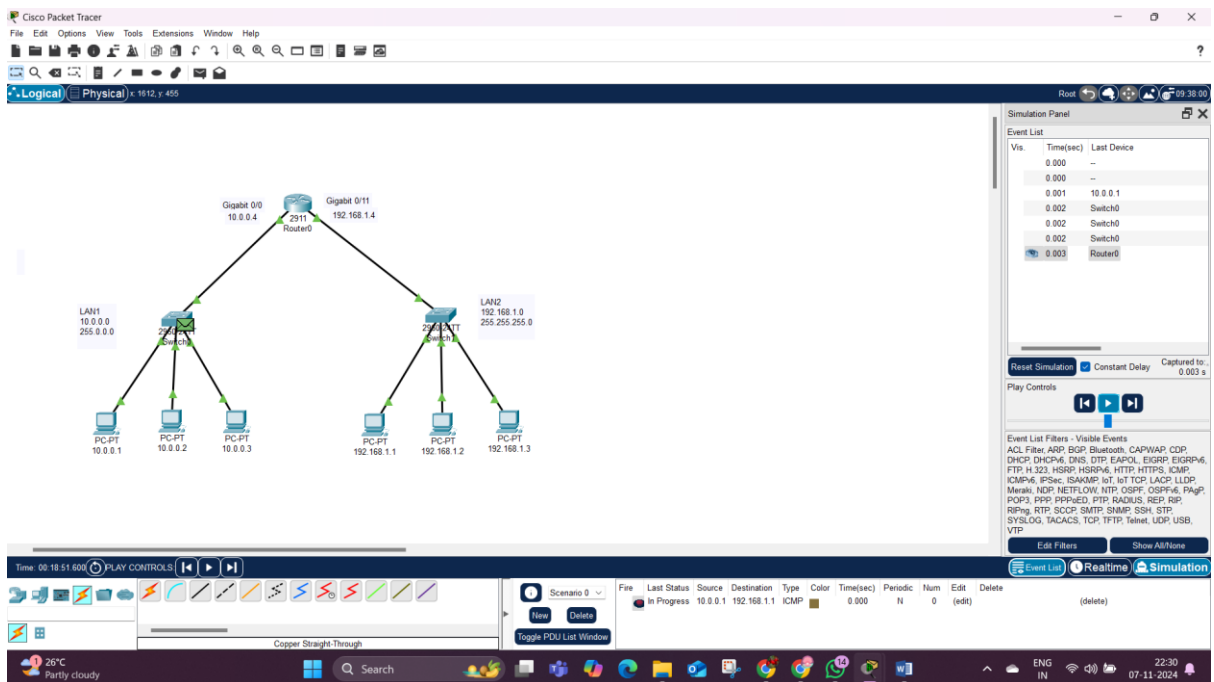
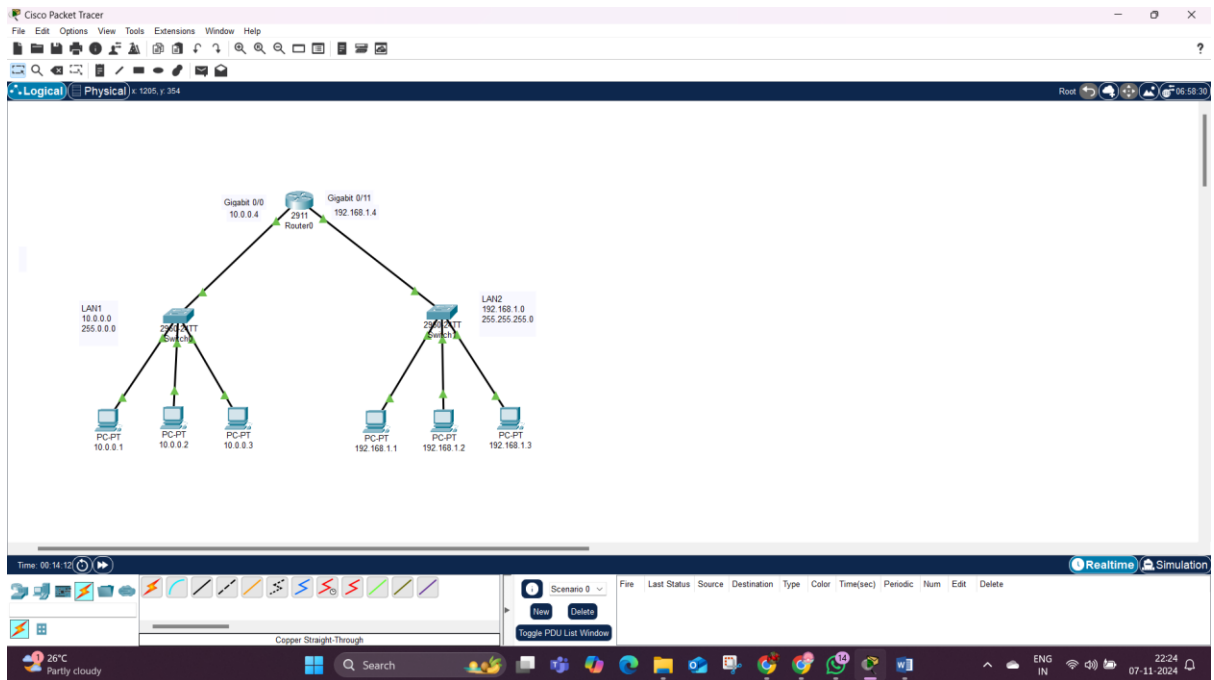


EXPERIMENT -10

AIM: - a) Internetworking with routers in CISCO PACKET TRACER simulator.

OUTPUT: -





Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 108, 7:57

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	—
	0.000	—
	0.001	10.0.0.1
	0.002	Switch0
	0.002	Switch0
	0.002	Switch0
	0.003	Router0
	0.004	Switch0
	0.004	—

Reset Simulation Constant Delay Captured to: 0.004 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IOT, L2TP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, Syslog, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:18:51.601 PLAY CONTROLS

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

In Progress 10.0.0.1 192.168.1.1 ICMP 0.000 N 0 (edit) (delete)

Copper Straight-Through

26°C Partly cloudy

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical 935, 7:53

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	—
	0.000	—
	0.001	10.0.0.1
	0.002	Switch0
	0.002	Switch0
	0.002	Switch0
	0.003	Router0
	0.004	Switch0
	0.004	—
	0.005	10.0.0.1

Reset Simulation Constant Delay Captured to: 0.005 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IOT, L2TP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, Syslog, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:18:51.602 PLAY CONTROLS

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

In Progress 10.0.0.1 192.168.1.1 ICMP 0.000 N 0 (edit) (delete)

Copper Straight-Through

26°C Partly cloudy

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 801, y 4

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
0.000	-	
0.000	-	
0.001	10.0.0.1	
0.002	Switch0	
0.002	Switch0	
0.003	Router0	
0.004	Switch0	
0.004	-	
0.005	10.0.0.1	
0.006	Switch0	
0.007	Router0	

Reset Simulation Constant Delay Captured to 0.007 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, iot, iot TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PaqP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

In Progress 10.0.0.1 192.168.1.1 ICMP 0.000 N 0 (edit) (delete)

Toggle PDU List Window

26°C Partly cloudy

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1152, y 9

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
0.000	-	
0.001	10.0.0.1	
0.002	Switch0	
0.002	Switch0	
0.003	Router0	
0.004	Switch0	
0.004	-	
0.005	10.0.0.1	
0.006	Switch0	
0.007	Router0	
0.008	Switch1	

Reset Simulation Constant Delay Captured to 0.008 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, iot, iot TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PaqP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

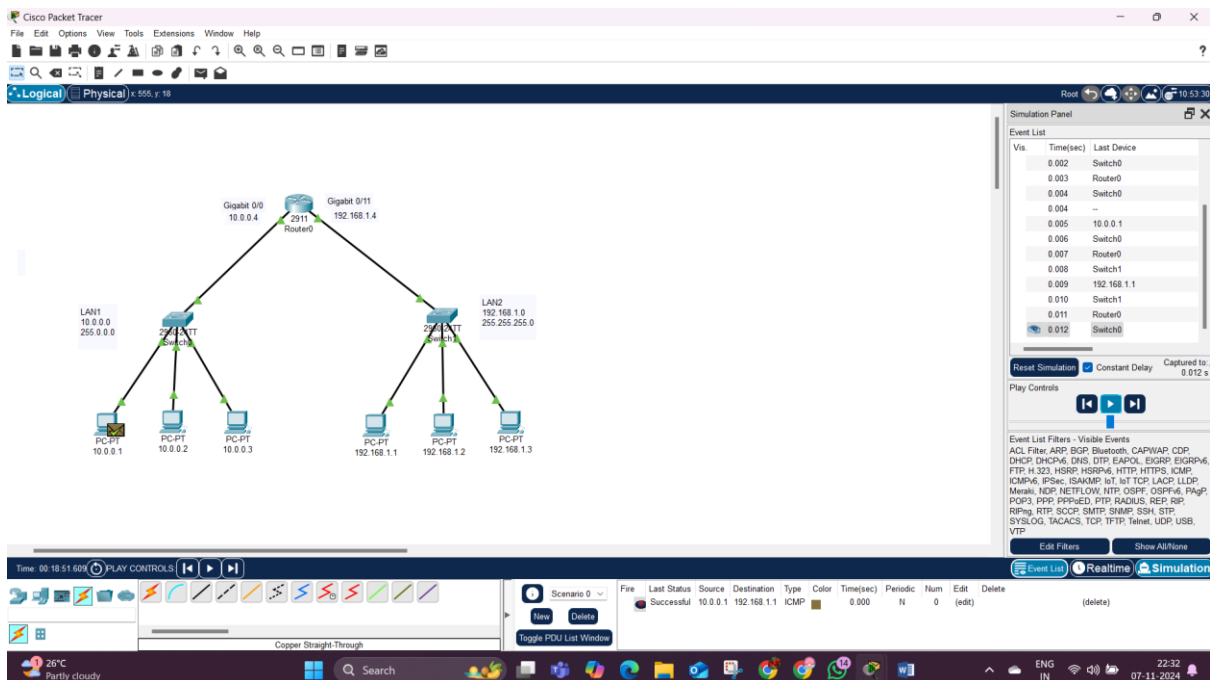
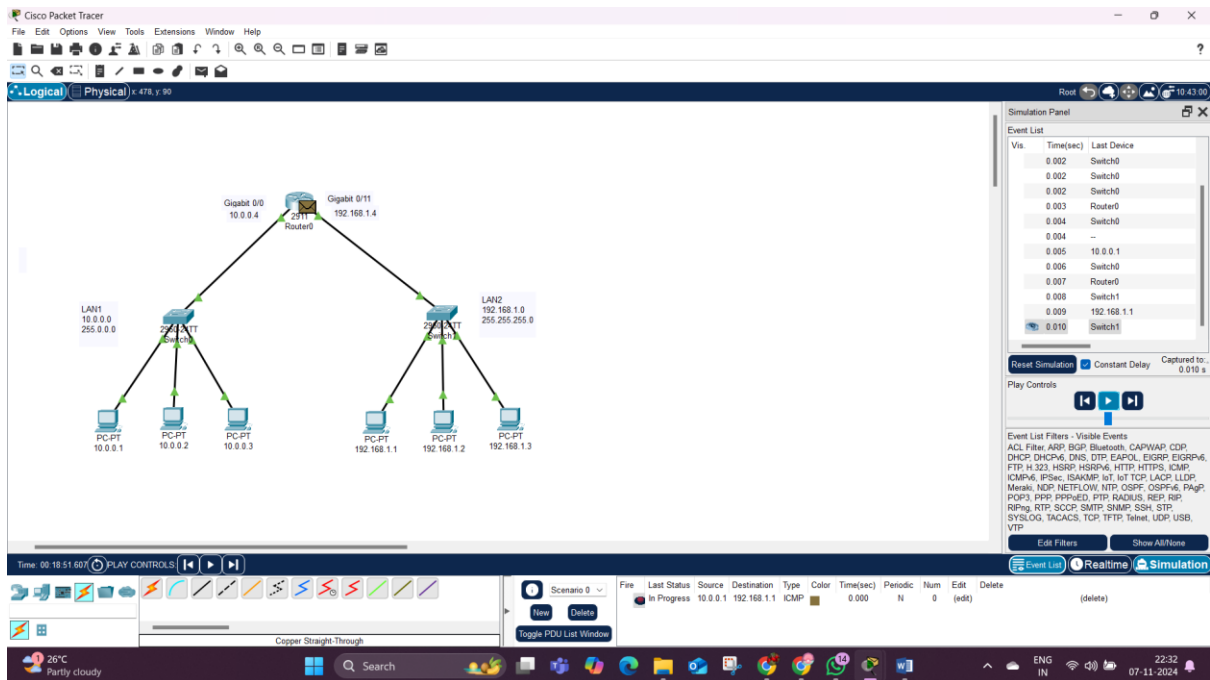
Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

In Progress 10.0.0.1 192.168.1.1 ICMP 0.000 N 0 (edit) (delete)

Toggle PDU List Window

26°C Partly cloudy



Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	10.0.0.1	192.168.1.1	ICMP		0.000	N	0	(edit)	(delete)

RESULT: -

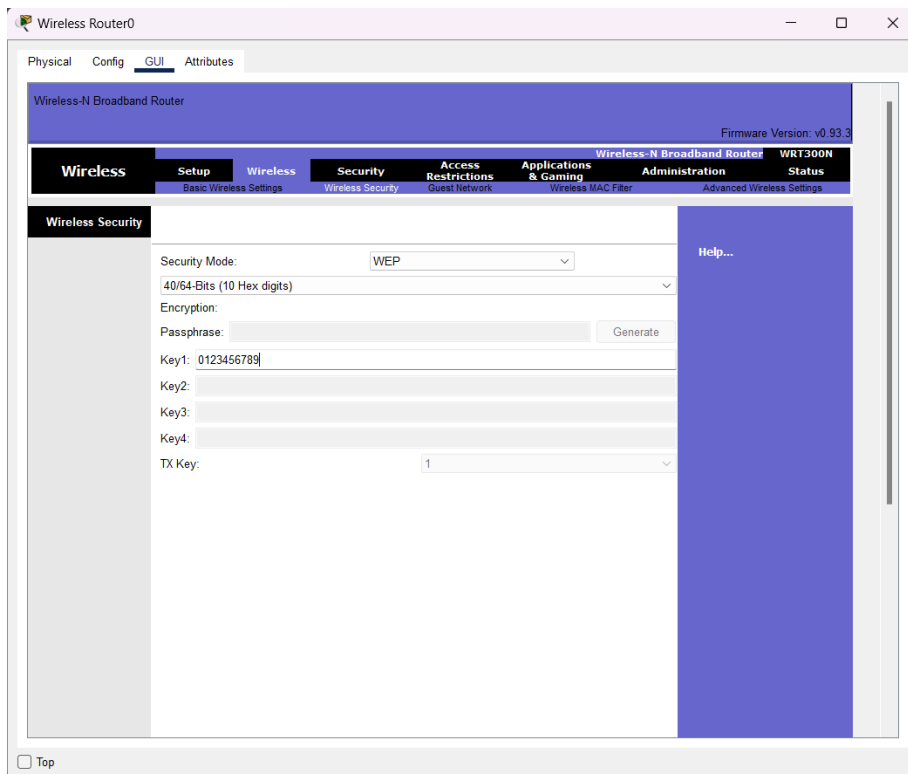
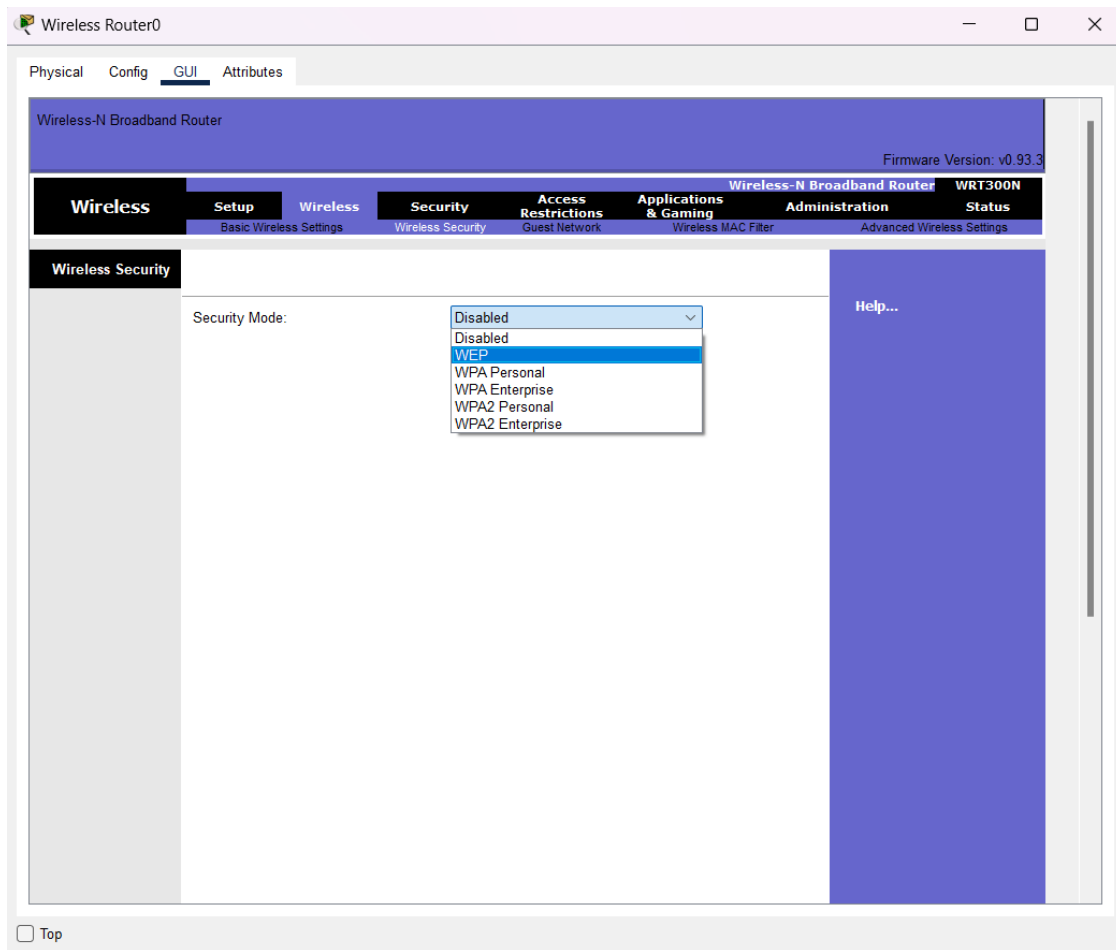
Router have been successfully done in CISCO PACKET TRACER.

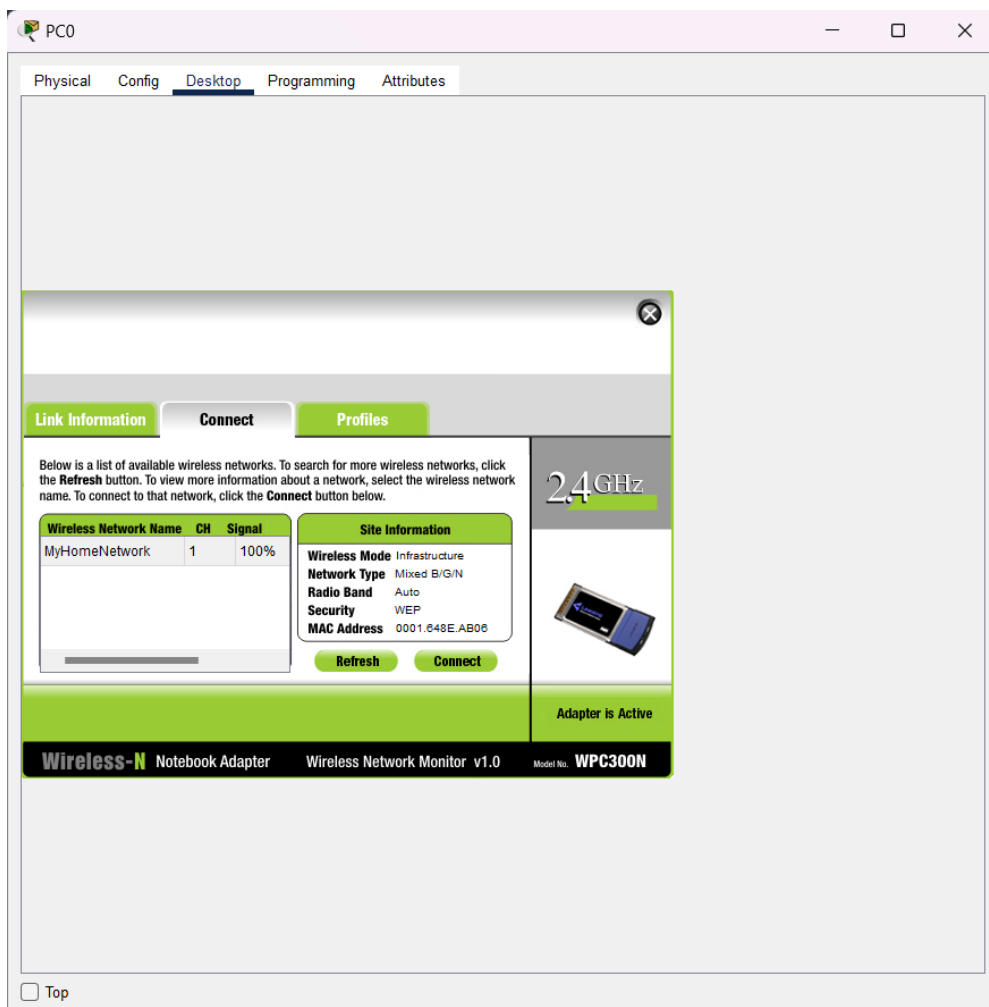
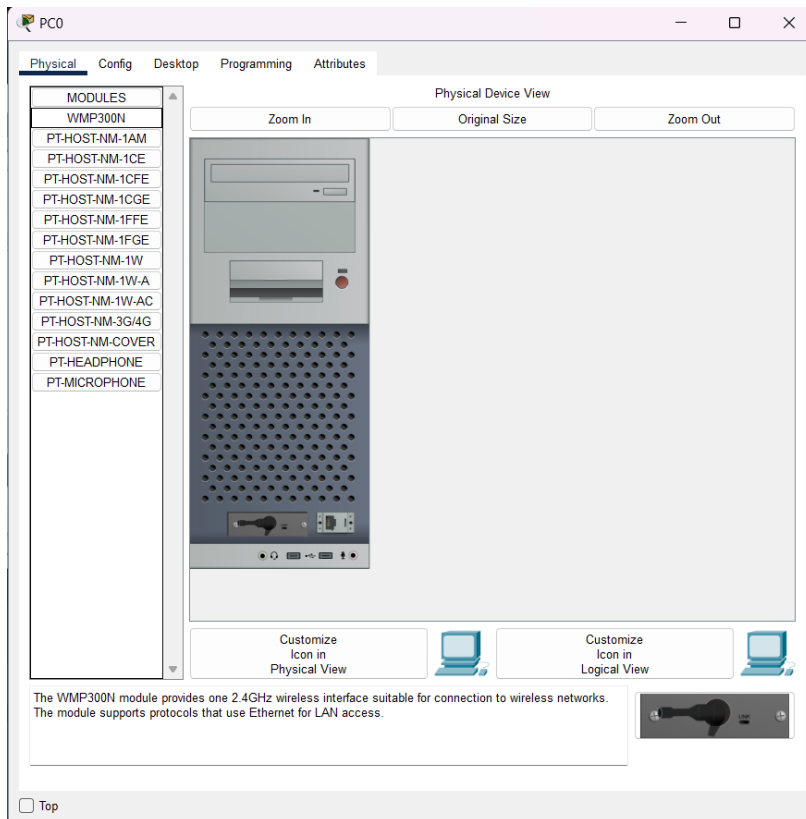
AIM: - b) Design and configure an internetwork using wireless router, DHCP server and internet cloud.

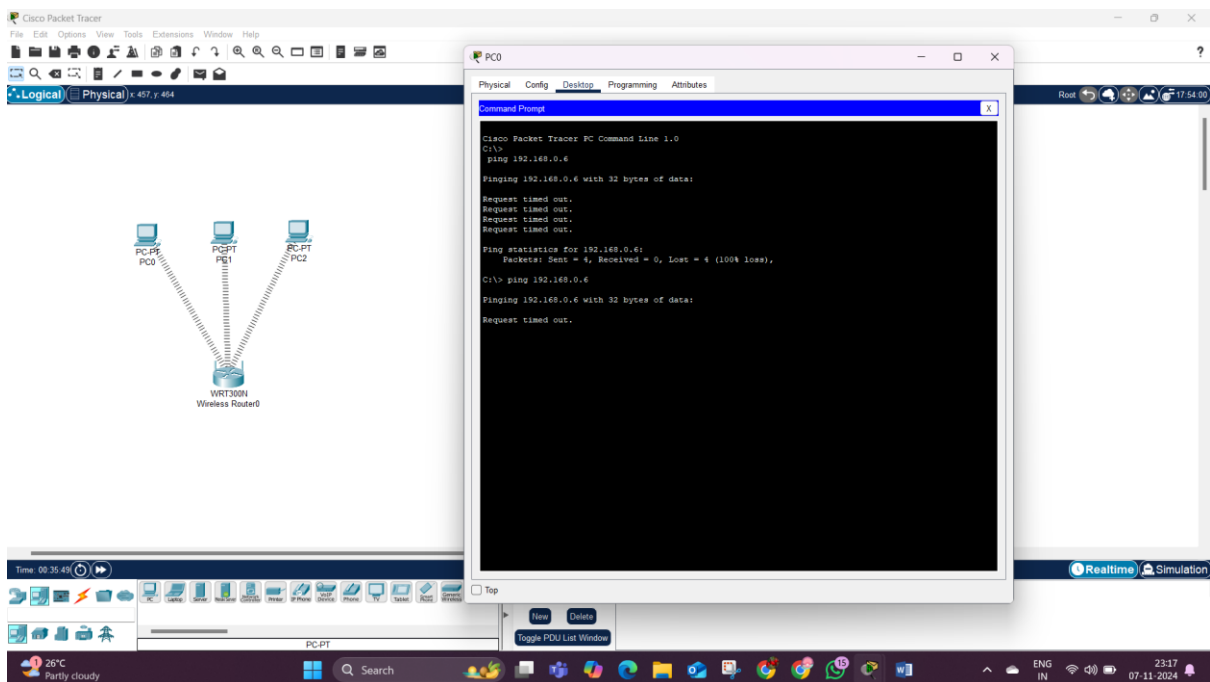
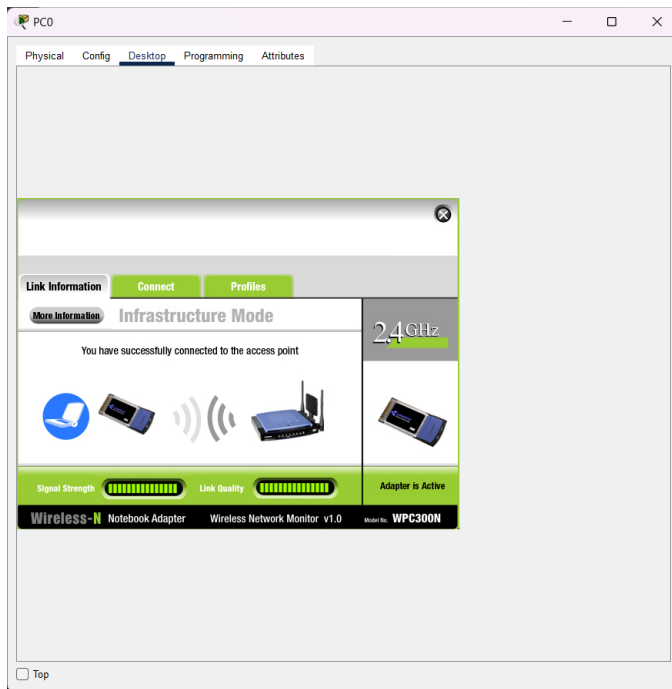
OUTPUT: -

The screenshot shows the 'Wireless Router0' GUI with the 'Config' tab selected. The 'Internet Setup' page is displayed, showing the 'Automatic Configuration - DHCP' option selected for the 'Internet Connection type'. The 'Optional Settings' section includes fields for 'Host Name', 'Domain Name', and 'MTU' (set to 1500). The 'Network Setup' section shows the 'Router IP' as 192.168.0.1 with a 'Subnet Mask' of 255.255.255.0. The 'DHCP Server Settings' section shows the 'DHCP Server' as 'Disabled', with a 'Start IP Address' of 192.168.0.100, a 'Maximum number of Users' of 50, an 'IP Address Range' of 192.168.0.100 - 149, and a 'Client Lease Time' of 0 minutes. There are also fields for 'Static DNS 1', 'Static DNS 2', and 'Static DNS 3', all set to 0.0.0.0. A 'WINS' section is also visible at the bottom.

The screenshot shows the 'Wireless Router0' GUI with the 'Config' tab selected. The 'Wireless' page is displayed, showing the 'Basic Wireless Settings' section. The 'Network Mode' is set to 'Mixed', the 'Network Name (SSID)' is 'MyHomeNetwork', the 'Radio Band' is 'Auto', the 'Wide Channel' is 'Auto', the 'Standard Channel' is '1 - 2.412GHz', and the 'SSID Broadcast' is 'Enabled'. A 'Help...' link is visible on the right side of the page.







RESULT:-

Wireless Router have been successfully done in CISCO PACKET TRACER.