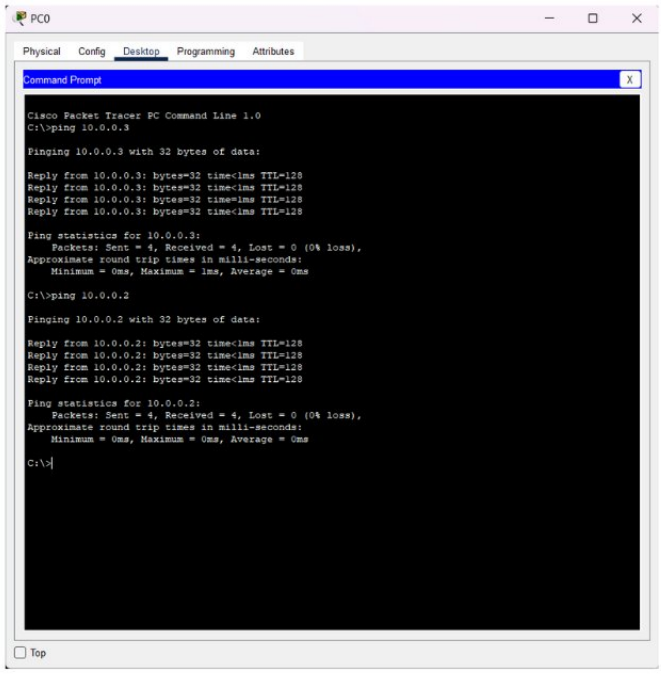
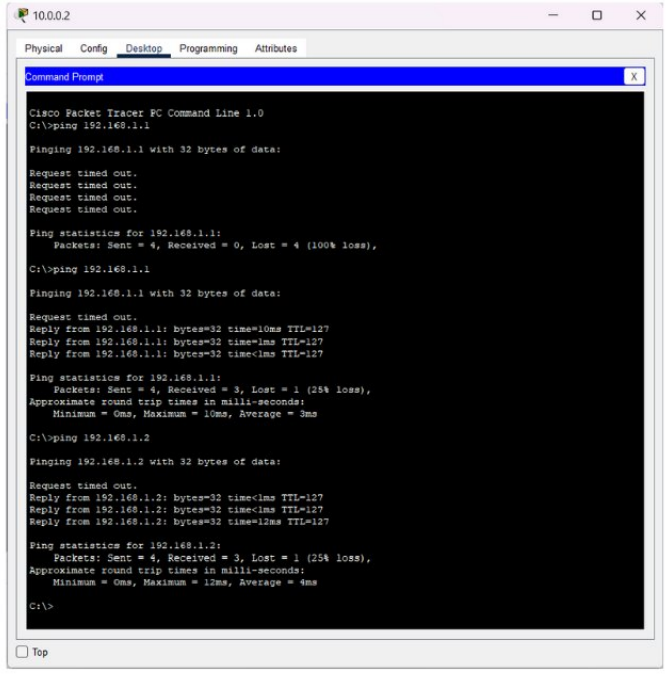
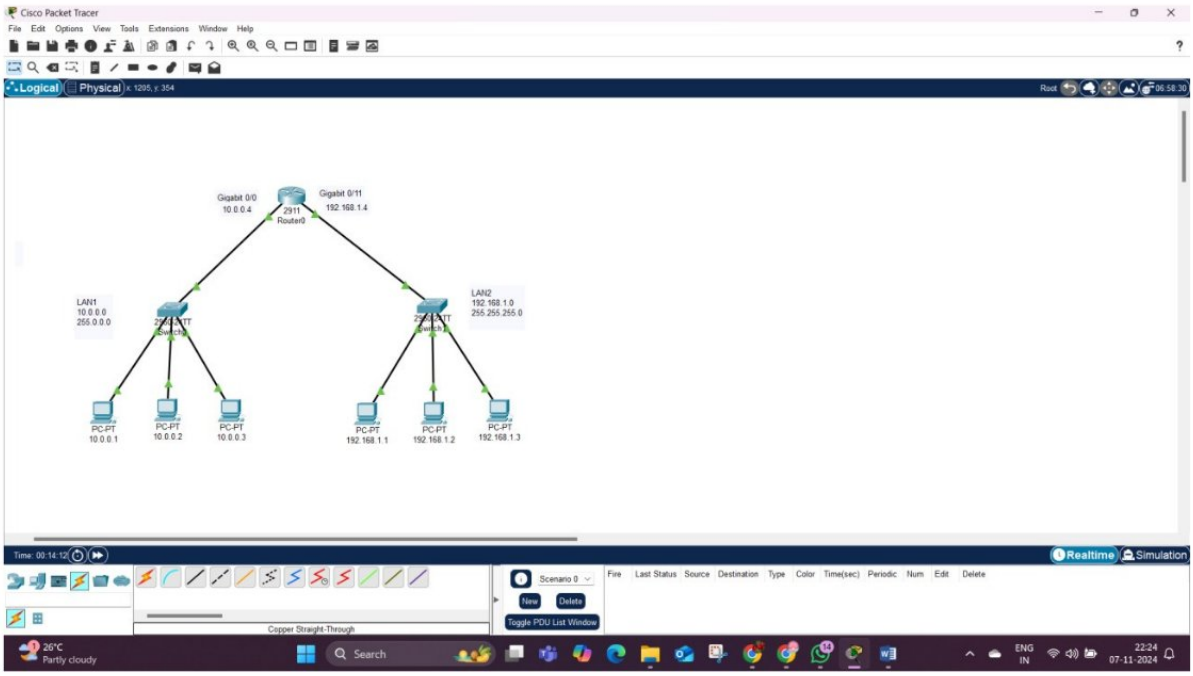
EXPERIMENT – 10

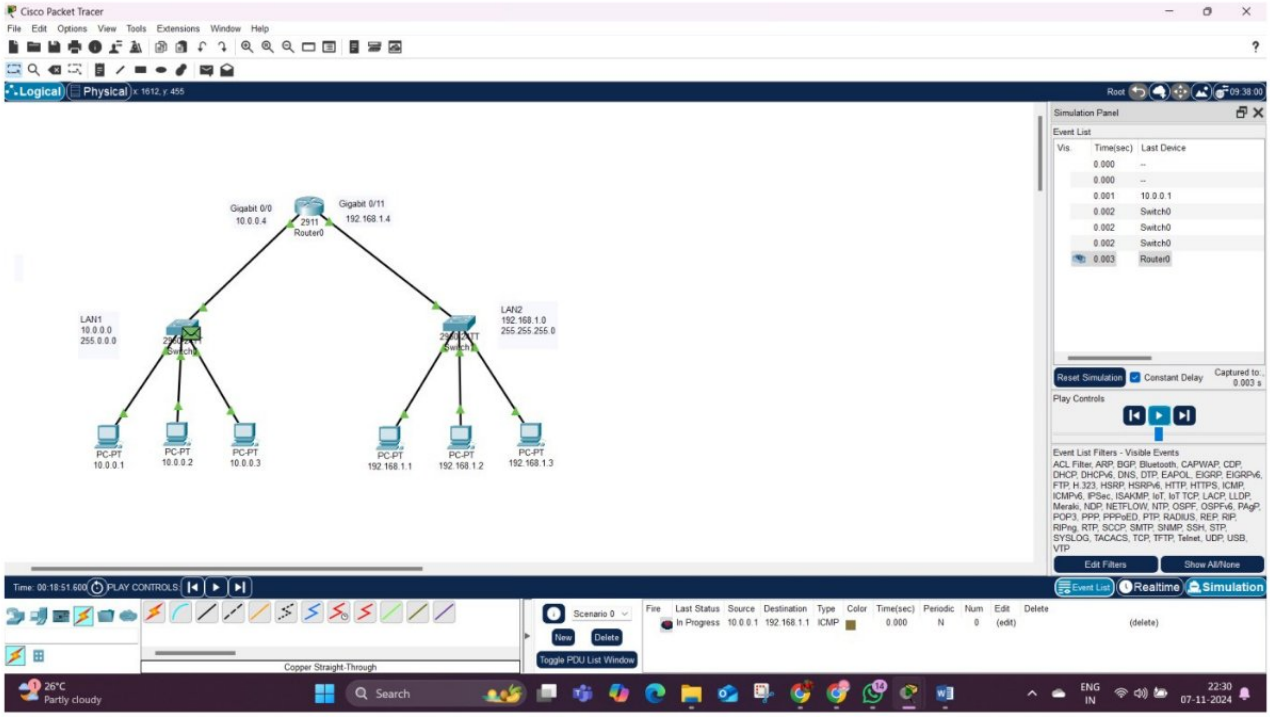
AIM: - a) Internetworking with routers in CISCO PACKET TRACER simulator.

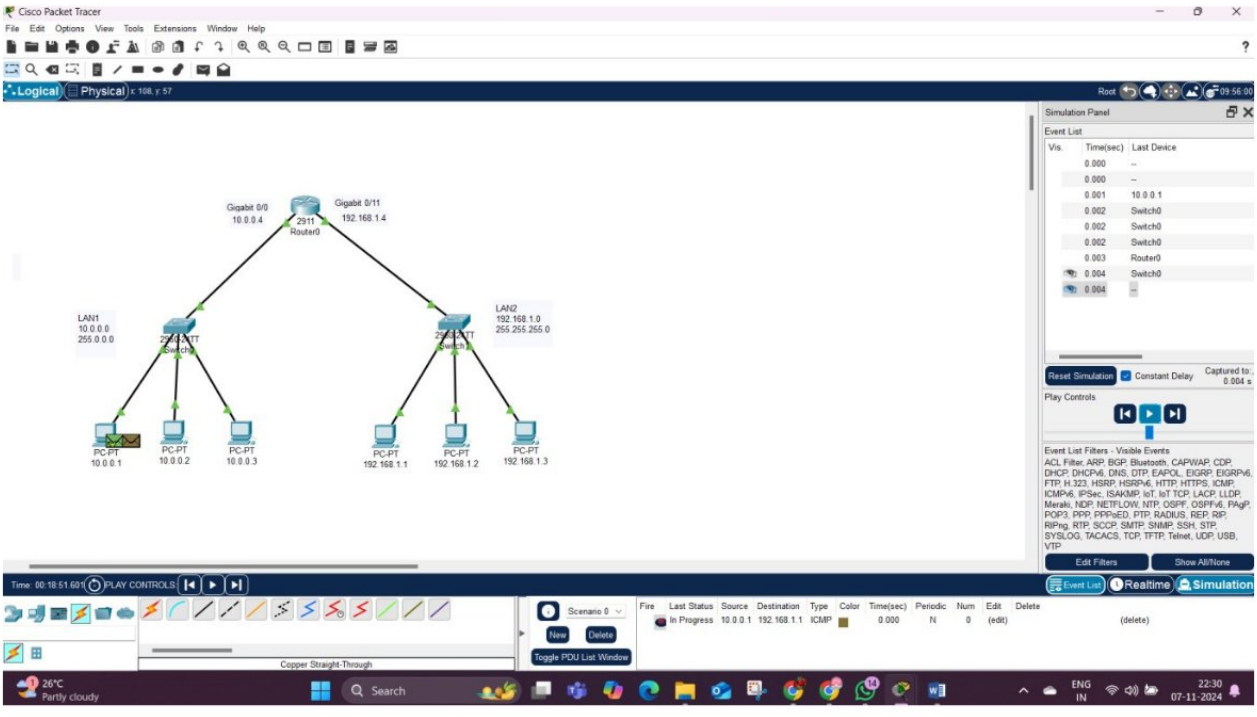
OUTPUT: -

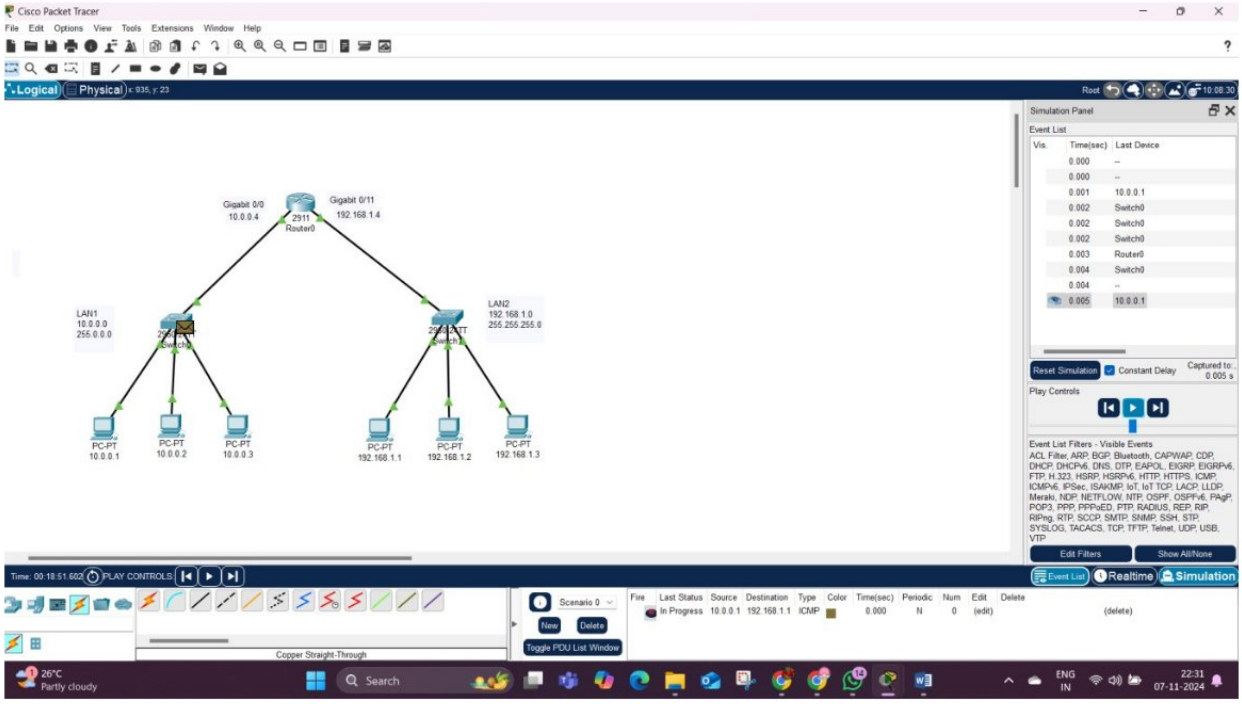


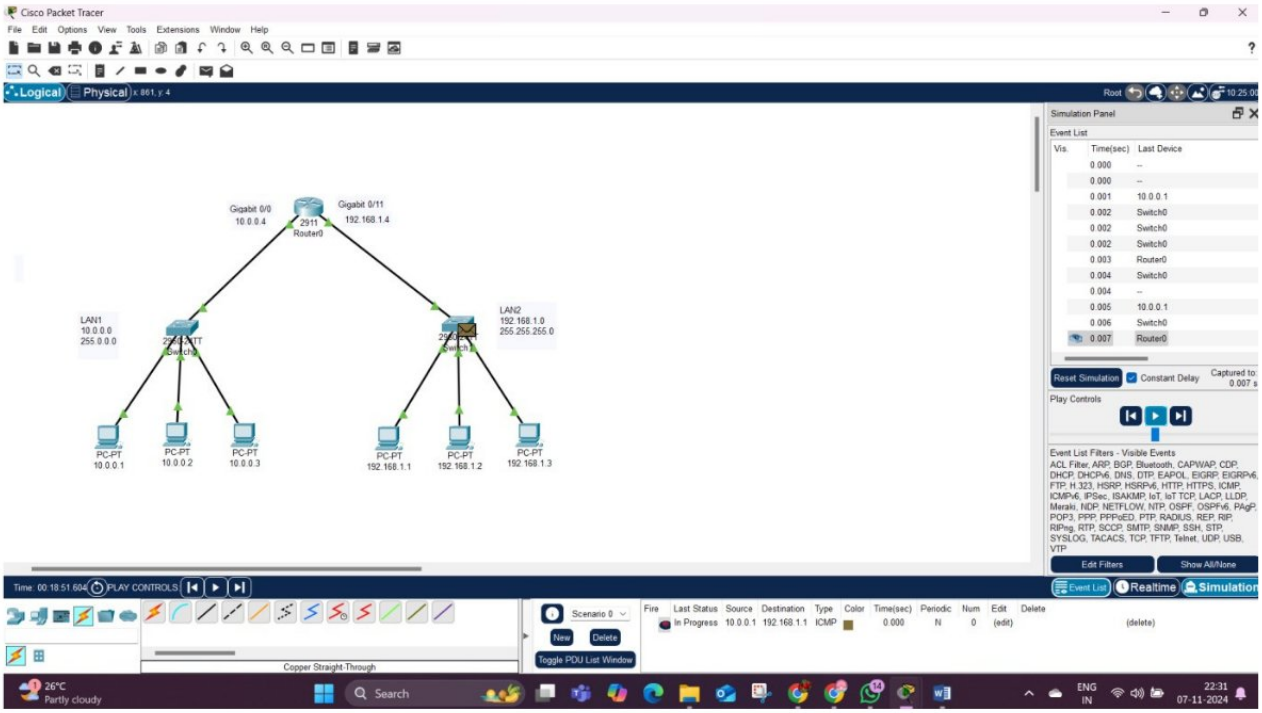


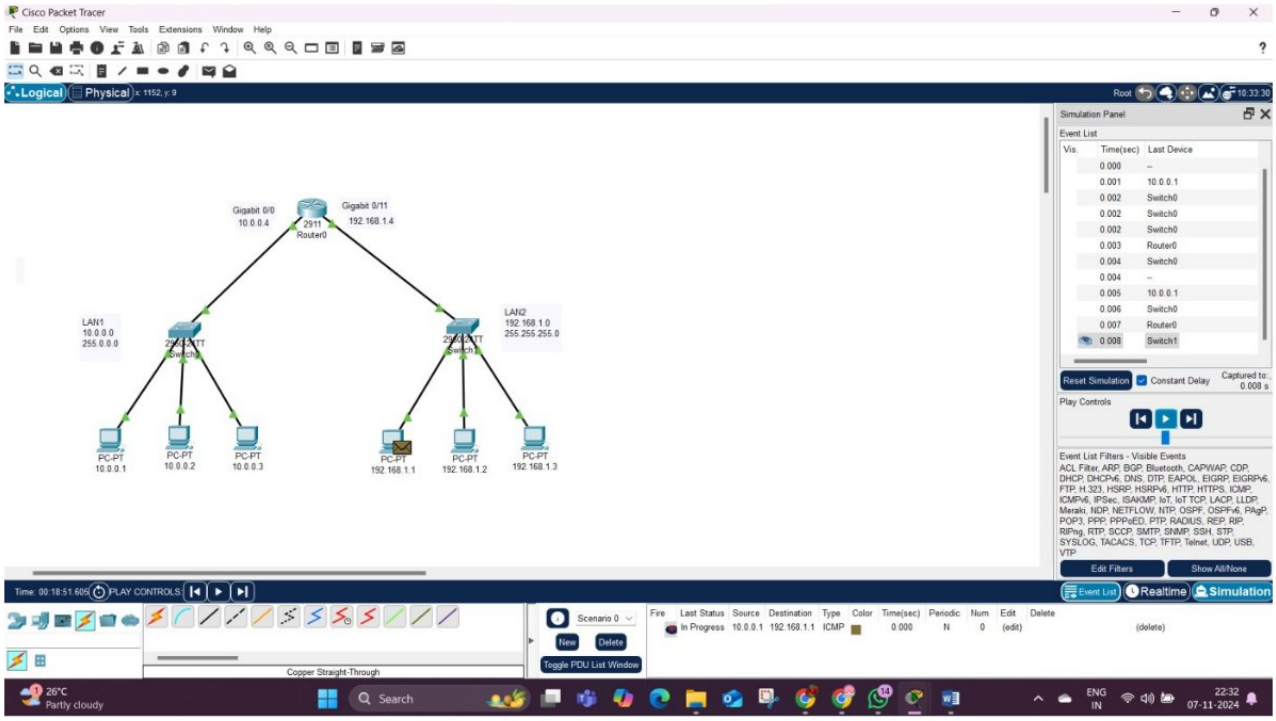


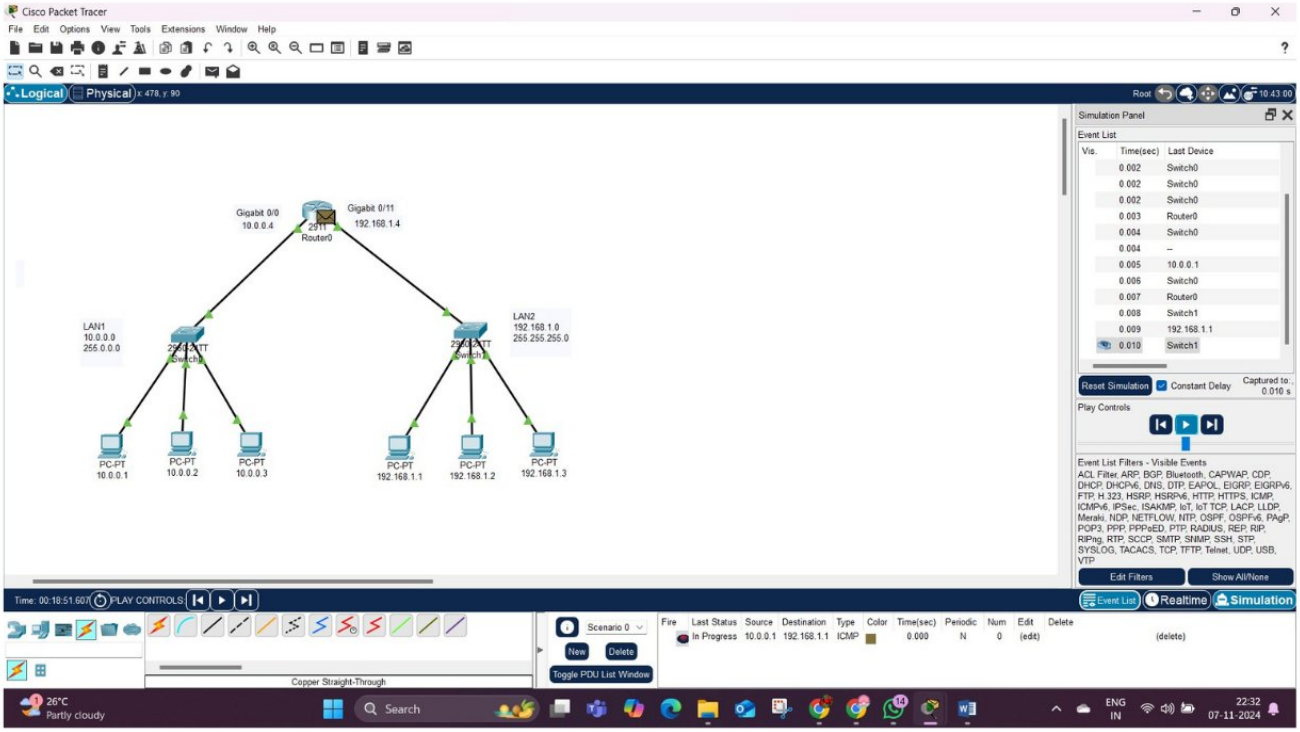

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Gigabit 0/0
10.0.0.4
2911
Router0
Gigabit 0/11
192.168.1.4
LAN1
10.0.0.0
255.0.0.0
LAN2
192.168.1.0
255.255.255.0
PC-PT
10.0.0.1
PC-PT
10.0.0.2
PC-PT
10.0.0.3
PC-PT
192.168.1.1
PC-PT
192.168.1.2
PC-PT
192.168.1.3
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
Reset Simulation
Constant Delay
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, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP
Edit Filters
Show All/None
Event List
Realtime
Simulation
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)
Scenario 0
New
Delete
Toggle PDU List Window
Copper Straight-Through
26°C
Partly cloudy
Search
ENG
IN
22:30
07-11-2024

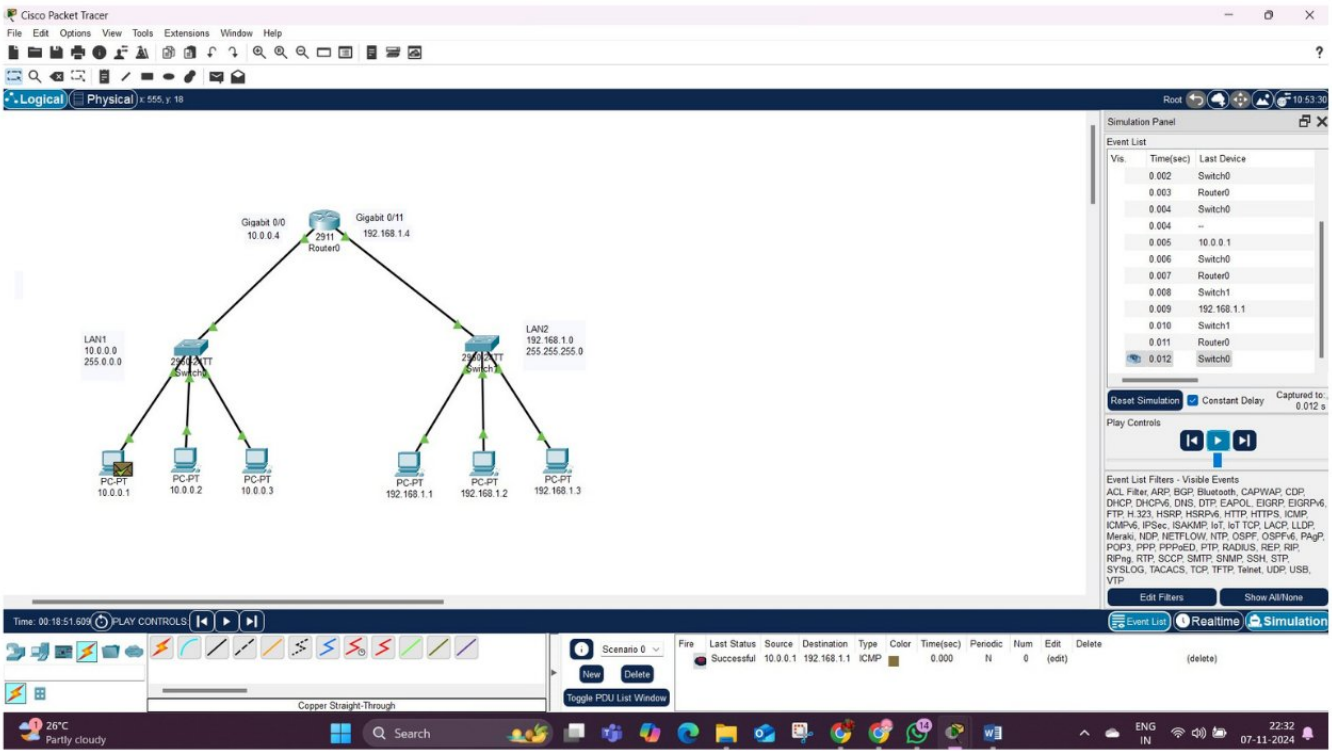

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Gigabit 0/0
10.0.0.4
2911
Router0
Gigabit 0/11
192.168.1.4
LAN1
10.0.0.0
255.0.0.0
LAN2
192.168.1.0
255.255.255.0
PC-PT
10.0.0.1
PC-PT
10.0.0.2
PC-PT
10.0.0.3
PC-PT
192.168.1.1
PC-PT
192.168.1.2
PC-PT
192.168.1.3
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
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, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP
Edit Filters
Show All/None
Event List
Realtime
Simulation
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)
Scenario 0
New
Delete
Toggle PDU List Window
Copper Straight-Through
26°C
Partly cloudy
Search
ENG
IN
22:30
07-11-2024


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Gigabit 0/0
10.0.0.4
2911
Router0
Gigabit 0/11
192.168.1.4
LAN1
10.0.0.0
255.0.0.0
LAN2
192.168.1.0
255.255.255.0
PC-PT
10.0.0.1
PC-PT
10.0.0.2
PC-PT
10.0.0.3
PC-PT
192.168.1.1
PC-PT
192.168.1.2
PC-PT
192.168.1.3
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
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, PAgP, POP3, PPP, PPPoED, 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
Event List
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
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
Search
ENG
IN
22:31
07-11-2024


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Gigabit 0/0
10.0.0.4
2911
Router0
Gigabit 0/11
192.168.1.4
LAN1
10.0.0.0
255.0.0.0
LAN2
192.168.1.0
255.255.255.0
PC-PT
10.0.0.1
PC-PT
10.0.0.2
PC-PT
10.0.0.3
PC-PT
192.168.1.1
PC-PT
192.168.1.2
PC-PT
192.168.1.3
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
0.006 Switch0
0.007 Router0
Reset Simulation
Constant Delay
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, PAgP, POP3, PPP, PPPoED, 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: 00:18:51.604
PLAY CONTROLS
Event List
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
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
Search
ENG
IN
22:31
07-11-2024


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Gigabit 0/0
10.0.0.4
2911
Router0
Gigabit 0/11
192.168.1.4
LAN1
10.0.0.0
255.0.0.0
LAN2
192.168.1.0
255.255.255.0
PC-PT
10.0.0.1
PC-PT
10.0.0.2
PC-PT
10.0.0.3
PC-PT
192.168.1.1
PC-PT
192.168.1.2
PC-PT
192.168.1.3
Simulation Panel
Event List
Vis. Time(sec) Last Device
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
0.006 Switch0
0.007 Router0
0.008 Switch1
Reset Simulation
Constant Delay
Play Controls
Edit Filters
Show All/None
Event List
Realtime
Simulation
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
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)
26°C
Partly cloudy
Search
ENG
IN
22:32
07-11-2024


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical
Gigabit 0/0
10.0.0.4
2911
Router0
Gigabit 0/11
192.168.1.4
LAN1
10.0.0.0
255.0.0.0
LAN2
192.168.1.0
255.255.255.0
PC-PT
10.0.0.1
PC-PT
10.0.0.2
PC-PT
10.0.0.3
PC-PT
192.168.1.1
PC-PT
192.168.1.2
PC-PT
192.168.1.3
Simulation Panel
Event List
Vis. Time(sec) Last Device
0.002 Switch0
0.002 Switch0
0.002 Switch0
0.003 Router0
0.004 Switch0
0.004 --
0.005 10.0.0.1
0.005 Switch0
0.007 Router0
0.008 Switch1
0.009 192.168.1.1
0.010 Switch1
Reset Simulation
Constant Delay
Play Controls
Edit Filters
Show All/None
Event List
Realtime
Simulation
Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
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)
26°C
Partly cloudy
Search
ENG
IN
22:32
07-11-2024



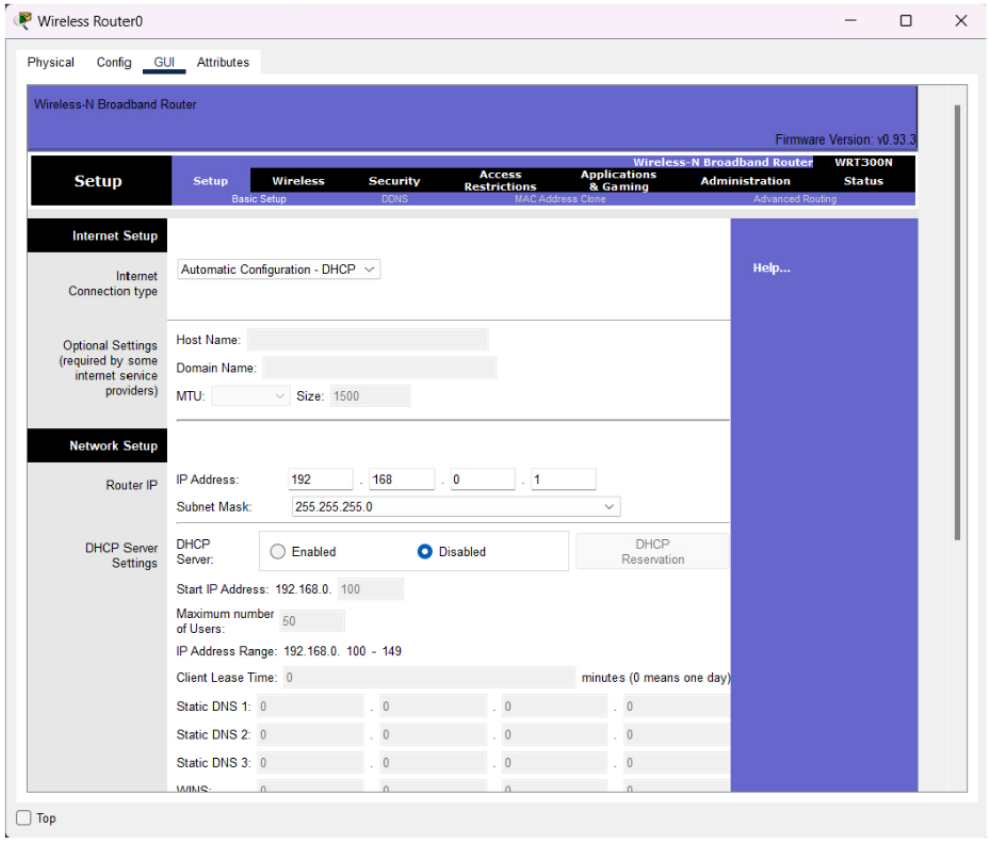
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	10.0.0.1	192.168.1.1	ICMP		0.000	N	0	(edit)	(delete)

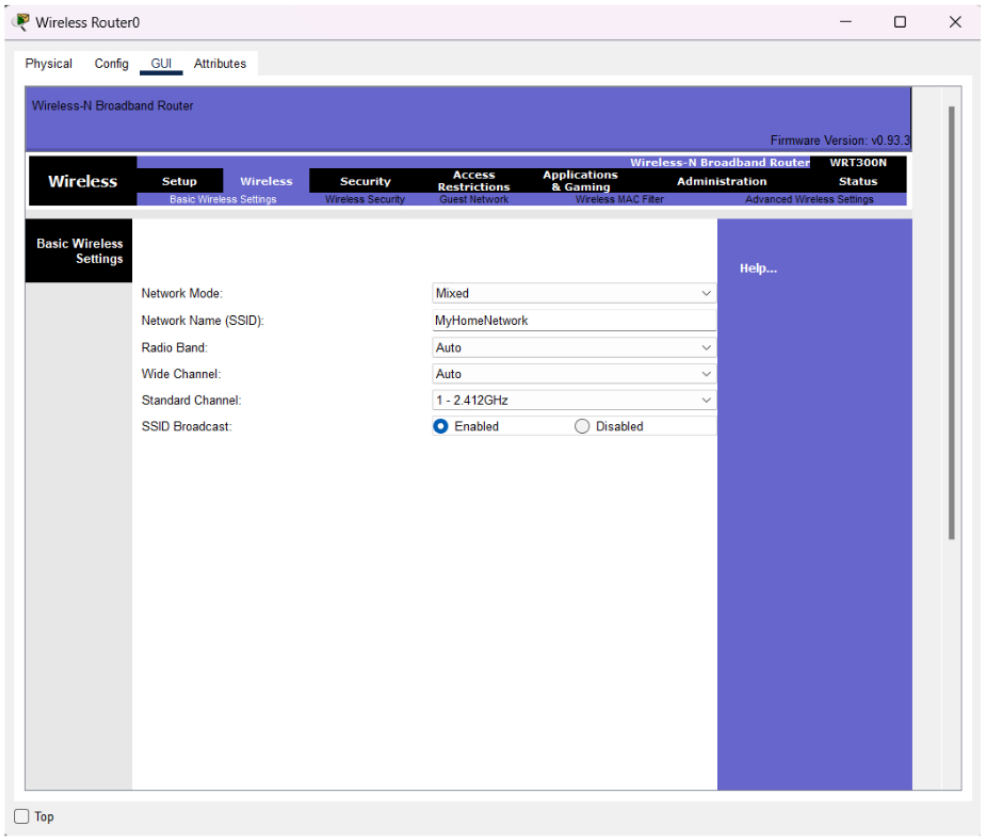
RESULT: -

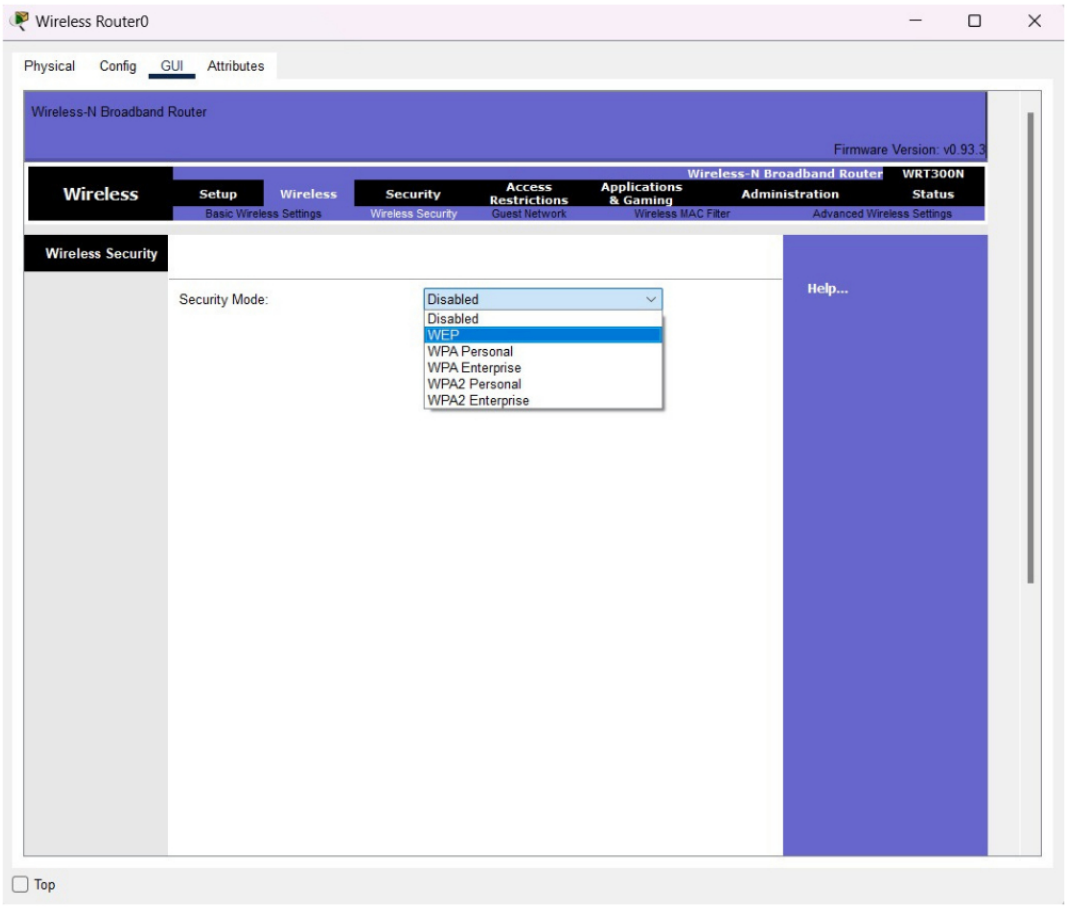
Router have been successfully done in CISCO PACKET TRACER.

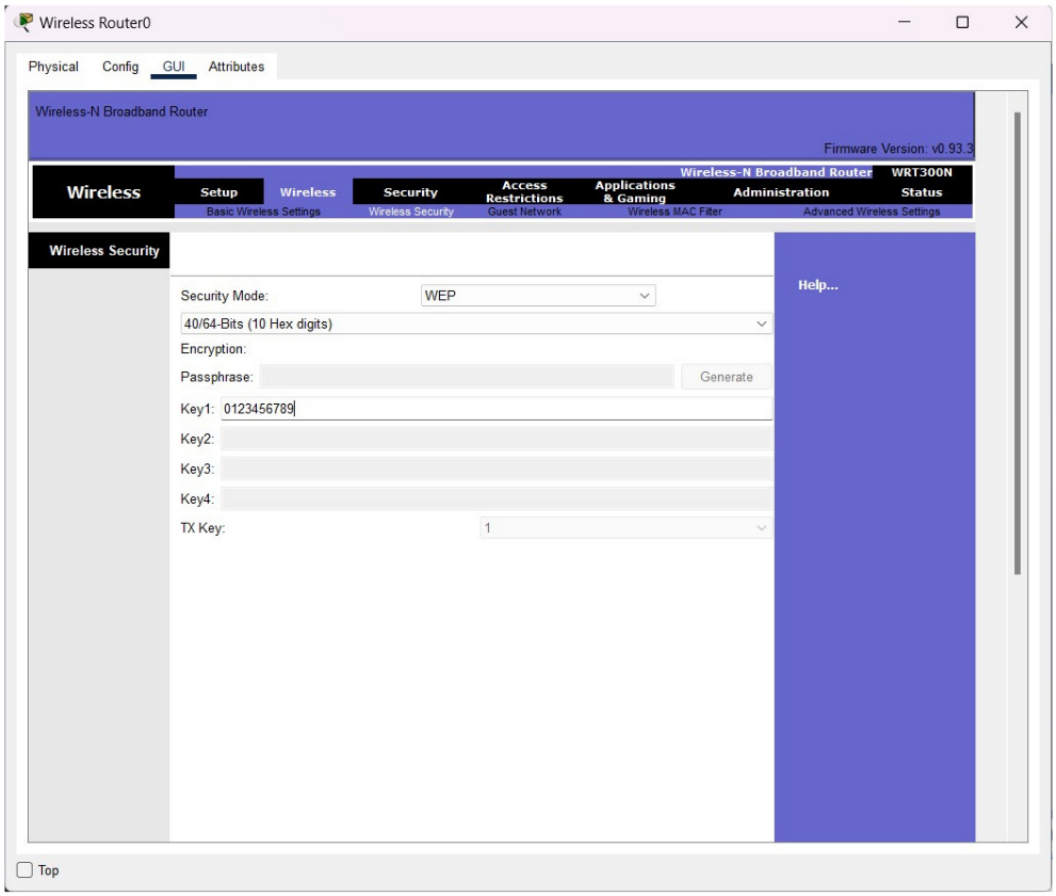
AIM: - b) Design and configure an internetwork using wireless router, DHCP server and internet cloud.

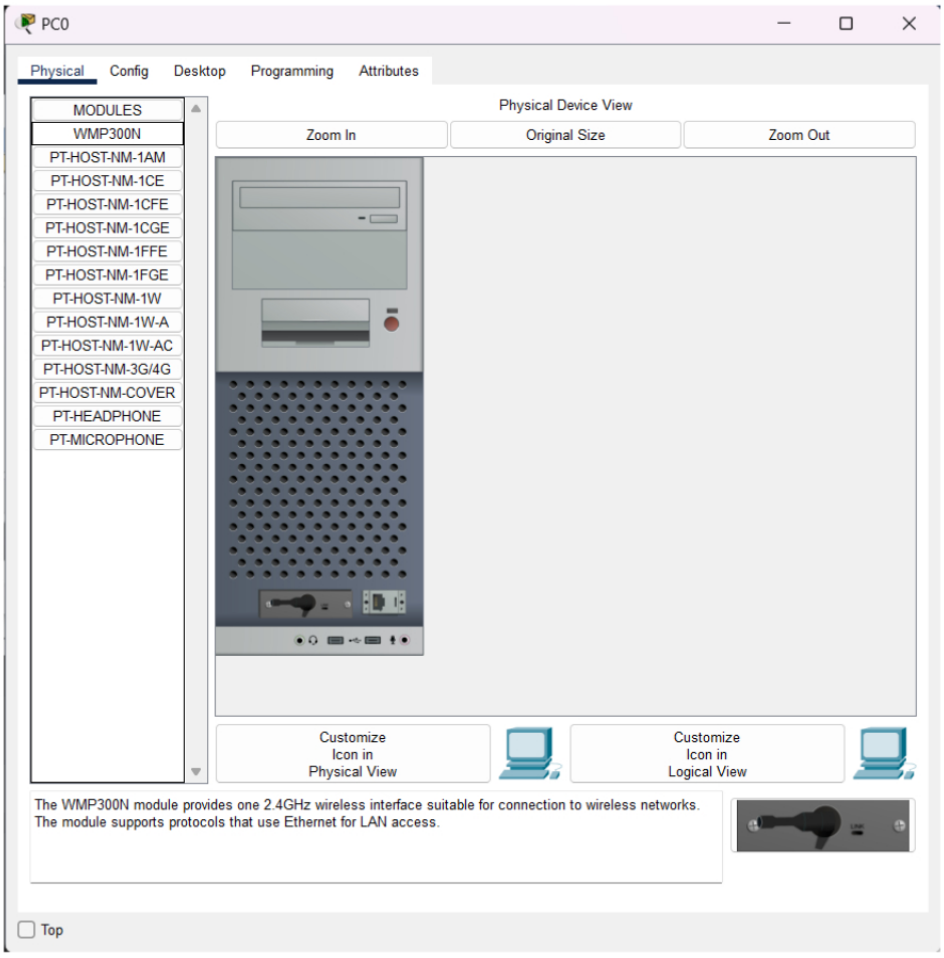
OUTPUT: -

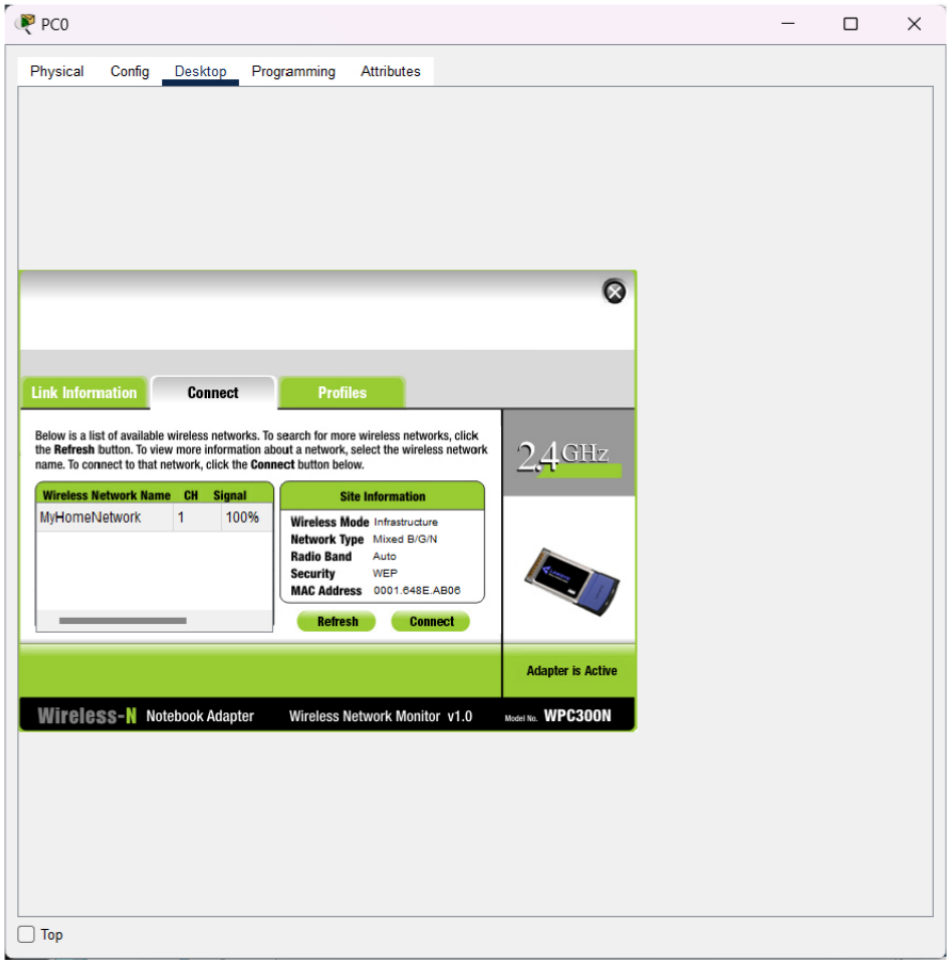


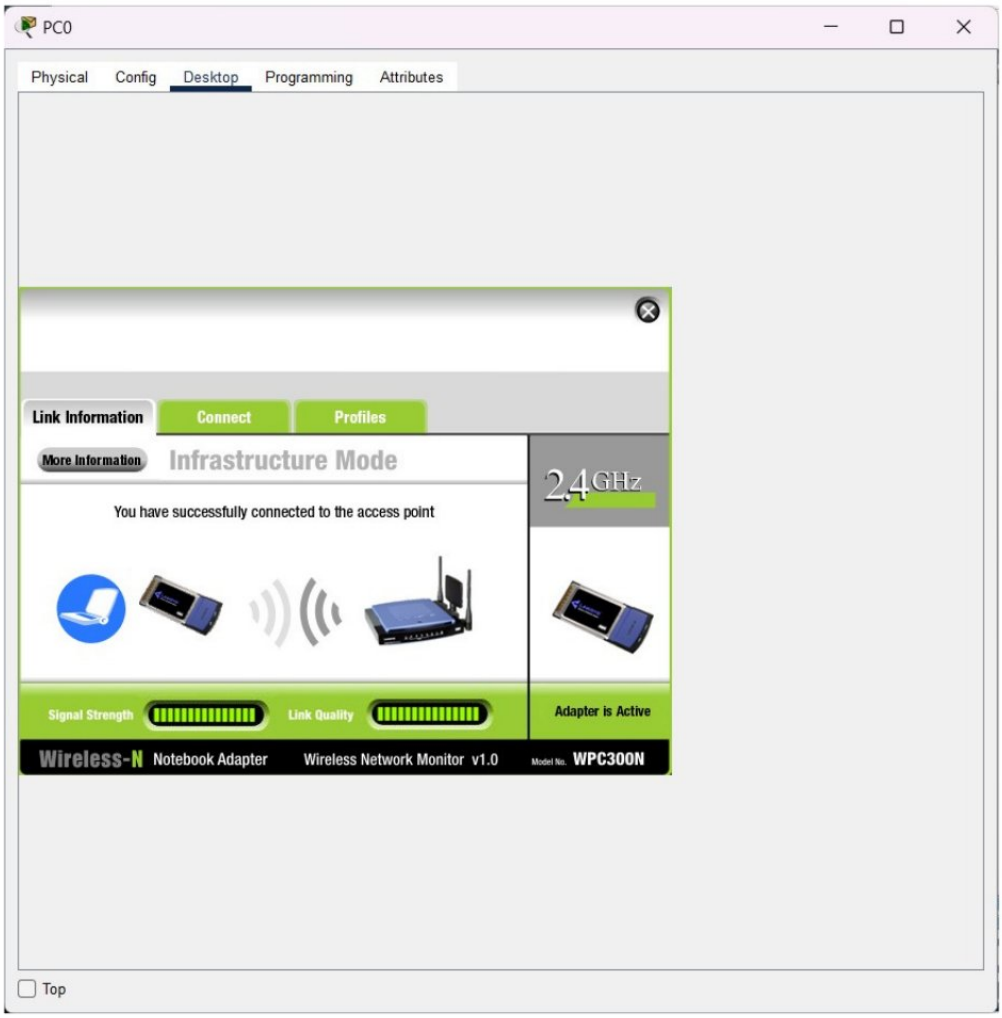


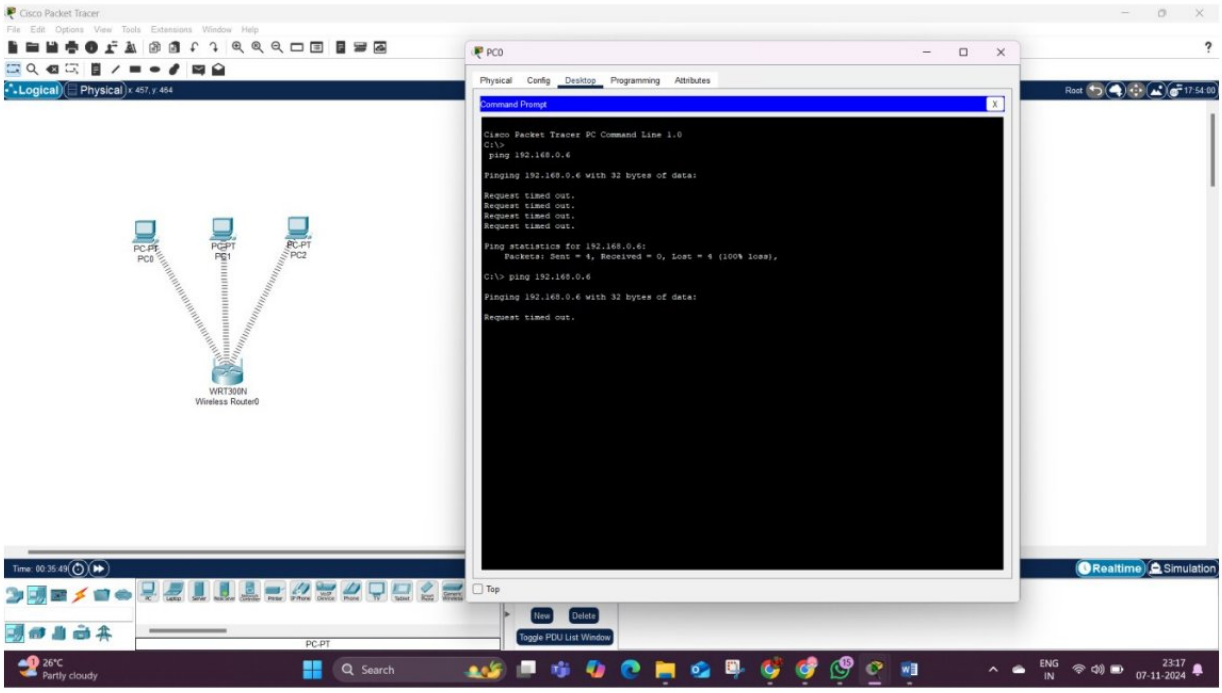

Wireless Router0
Physical
Config
GUI
Attributes
Wireless-N Broadband Router
Firmware Version: v0.93.3
Wireless
Setup
Wireless
Security
Access Restrictions
Applications & Gaming
Administration
Status
Wireless-N Broadband Router
WRT300N
Basic Wireless Settings
Wireless Security
Guest Network
Wireless MAC Filter
Advanced Wireless Settings
Wireless Security
Security Mode:
Disabled
Disabled
WEP
WPA Personal
WPA Enterprise
WPA2 Personal
WPA2 Enterprise
Help...
Top


Wireless Router0
Physical
Config
GUI
Attributes
Wireless-N Broadband Router
Firmware Version: v0.93.3
Wireless
Setup
Wireless
Security
Access Restrictions
Applications & Gaming
Administration
Status
Wireless-N Broadband Router
WRT300N
Basic Wireless Settings
Wireless Security
Guest Network
Wireless MAC Filter
Advanced Wireless Settings
Wireless Security
Security Mode:
WEP
40/64-Bits (10 Hex digits)
Encryption:
Passphrase:
Generate
Key1: 0123456789
Key2:
Key3:
Key4:
TX Key:
1
Help...
Top


PC0
Physical
Config
Desktop
Programming
Attributes
MODULES
WMP300N
PT-HOST-NM-1AM
PT-HOST-NM-1CE
PT-HOST-NM-1CFE
PT-HOST-NM-1CGE
PT-HOST-NM-1FFE
PT-HOST-NM-1FGE
PT-HOST-NM-1W
PT-HOST-NM-1W-A
PT-HOST-NM-1W-AC
PT-HOST-NM-3G/4G
PT-HOST-NM-COVER
PT-HEADPHONE
PT-MICROPHONE
Physical Device View
Zoom In
Original Size
Zoom Out
Customize Icon in Physical View
Customize Icon in Logical View
The WMP300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks.
The module supports protocols that use Ethernet for LAN access.
Top


PC0
Physical
Config
Desktop
Programming
Attributes
Link Information
Connect
Profiles
Below is a list of available wireless networks. To search for more wireless networks, click the Refresh button. To view more information about a network, select the wireless network name. To connect to that network, click the Connect button below.
Wireless Network Name
CH
Signal
MyHomeNetwork
1
100%
Site Information
Wireless Mode Infrastructure
Network Type Mixed B/G/N
Radio Band Auto
Security WEP
MAC Address 0001.648E.AB06
Refresh
Connect
2.4GHz
Adapter is Active
Wireless-N Notebook Adapter
Wireless Network Monitor v1.0
Model No. WPC300N
Top





***RESULT*: -**

Wireless Router have been successfully done in CISCO PACKET TRACER.