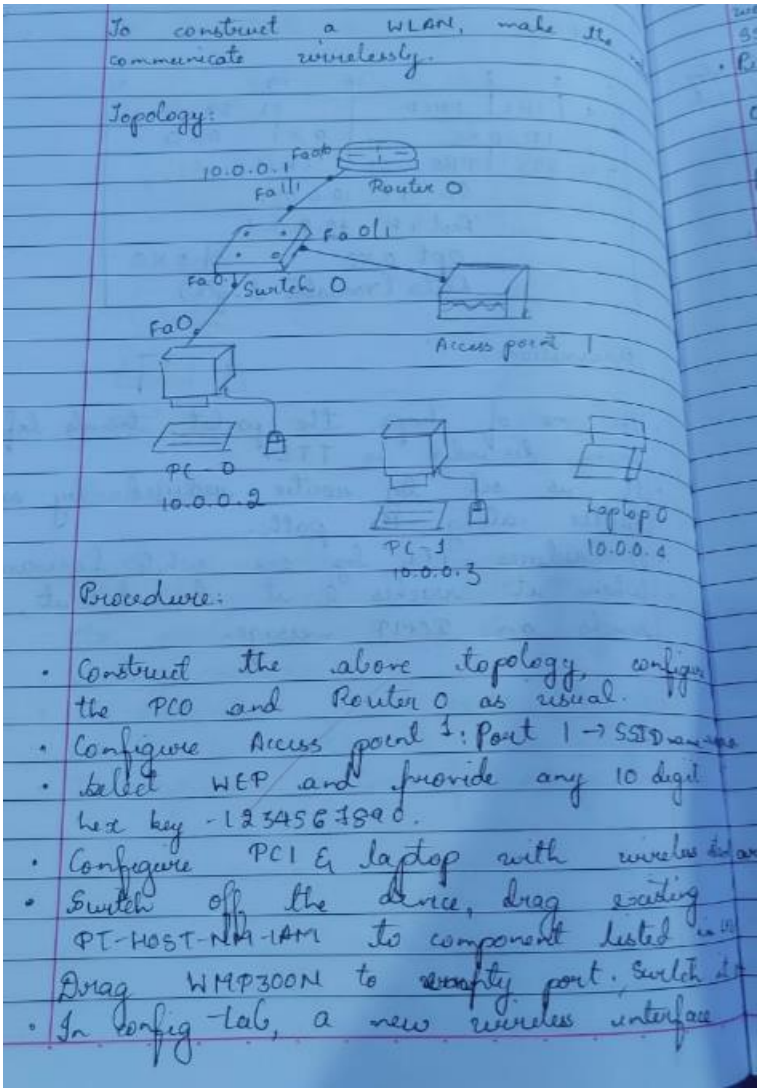
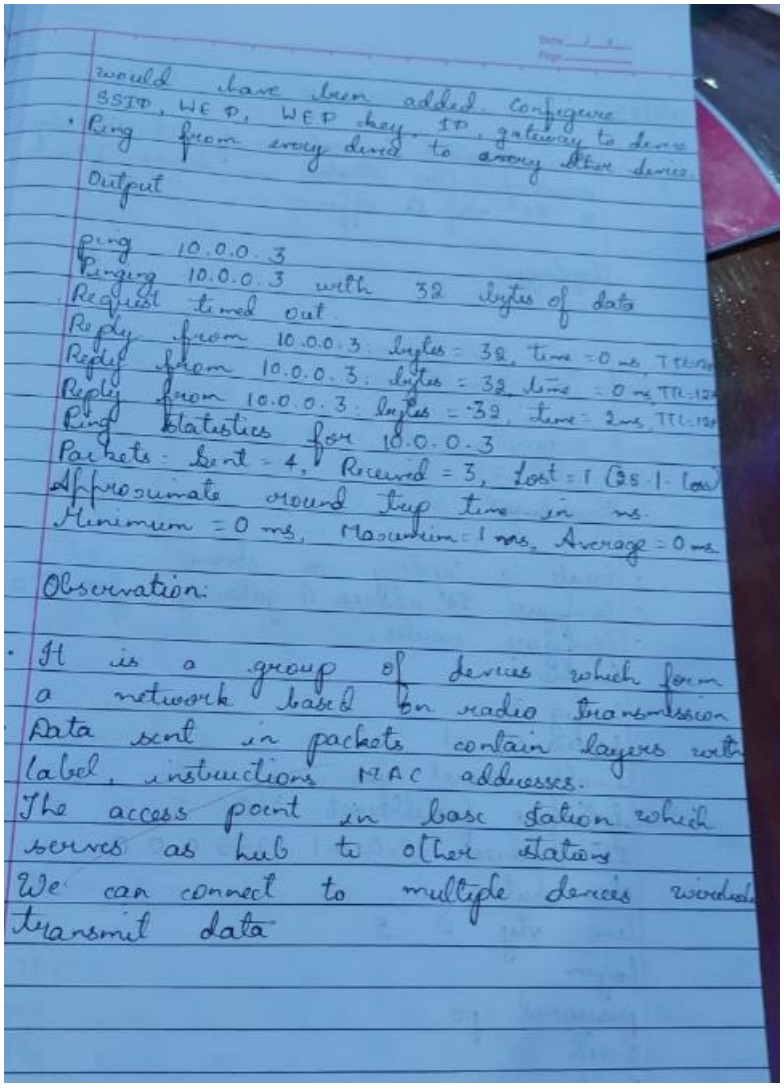
Week 12

To construct a WLAN and make the nodes communicate wirelessly.

Observation:





would have been added. Configure SSID, WEP, WEP key, IP, gateway to devices
• Ping from every host to every other devices.

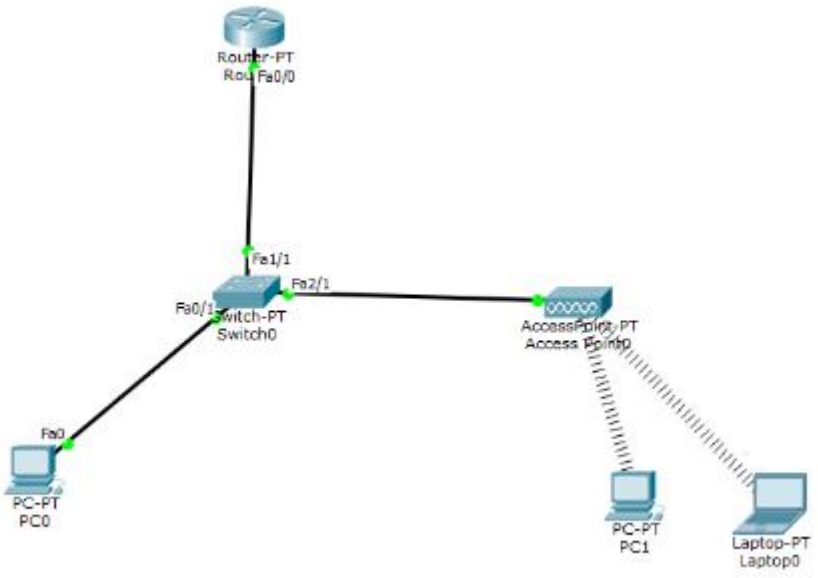
Output

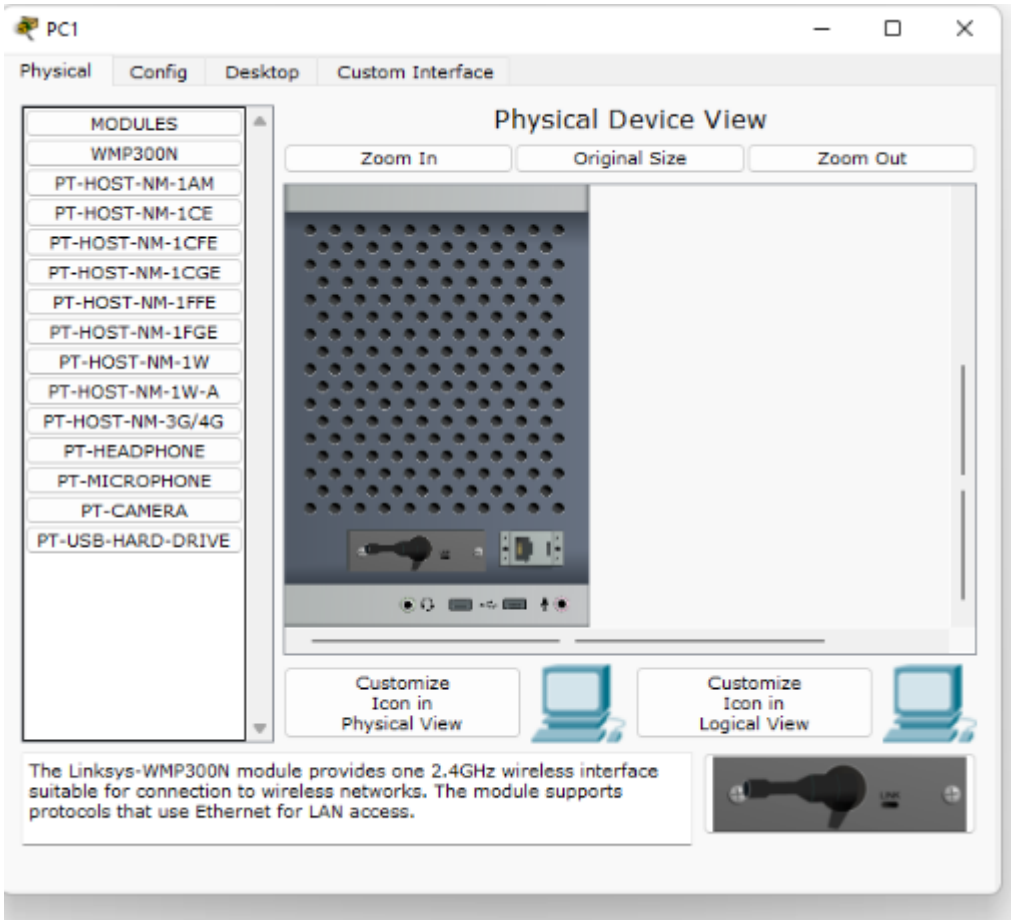
Ping 10.0.0.3
Pinging 10.0.0.3 with 32 bytes of data
Request timed out.
Reply from 10.0.0.3: bytes = 32, time = 0 ms, TTL=
Reply from 10.0.0.3: bytes = 32, time = 0 ms, TTL=12
Reply from 10.0.0.3: bytes = 32, time = 2ms, TTL=19
Ping statistics for 10.0.0.3
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss)
Approximate round trip time in ms:
Minimum = 0 ms, Maximum = 1 ms, Average = 0 ms

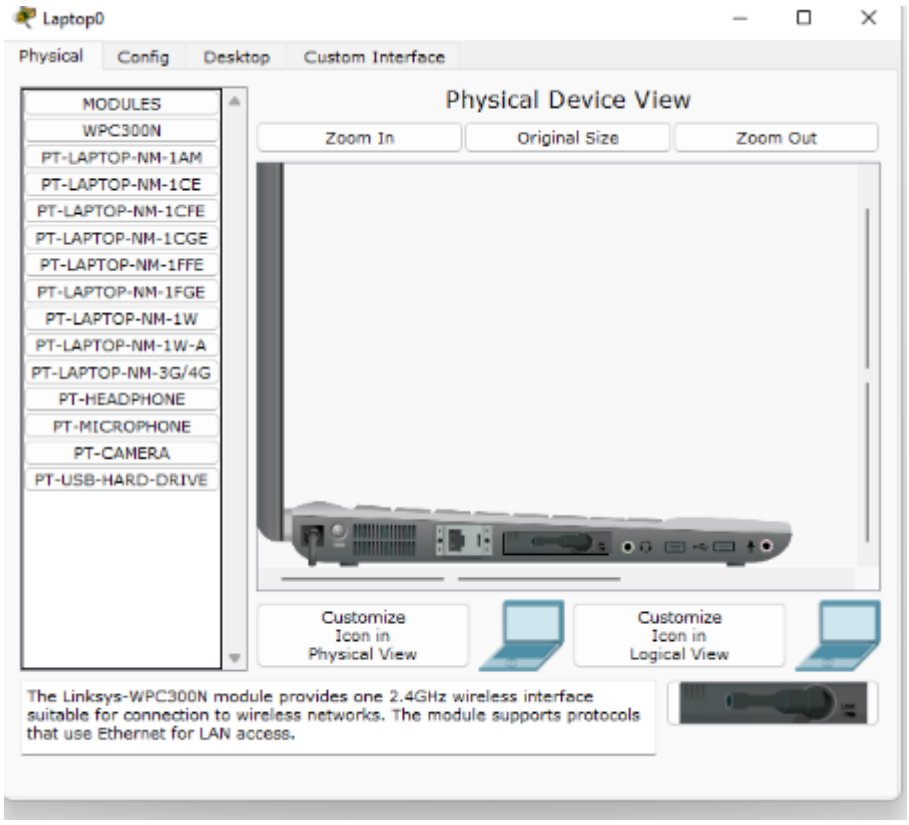
Observation:

• It is a group of devices which form a network based on radio transmission. Data sent in packets contain layers with label, instructions MAC addresses.
The access point in base station which serves as hub to other stations.
We can connect to multiple devices wirelessly transmit data

Topology :




PC1
Physical
Config
Desktop
Custom Interface
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-3G/4G
PT-HEADPHONE
PT-MICROPHONE
PT-CAMERA
PT-USB-HARD-DRIVE
Physical Device View
Zoom In
Original Size
Zoom Out
Customize Icon in Physical View
Customize Icon in Logical View
The Linksys-WMP300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.


Laptop0
Physical
Config
Desktop
Custom Interface
MODULES
WPC300N
PT-LAPTOP-NM-1AM
PT-LAPTOP-NM-1CE
PT-LAPTOP-NM-1CFE
PT-LAPTOP-NM-1CGE
PT-LAPTOP-NM-1FFE
PT-LAPTOP-NM-1FGE
PT-LAPTOP-NM-1W
PT-LAPTOP-NM-1W-A
PT-LAPTOP-NM-3G/4G
PT-HEADPHONE
PT-MICROPHONE
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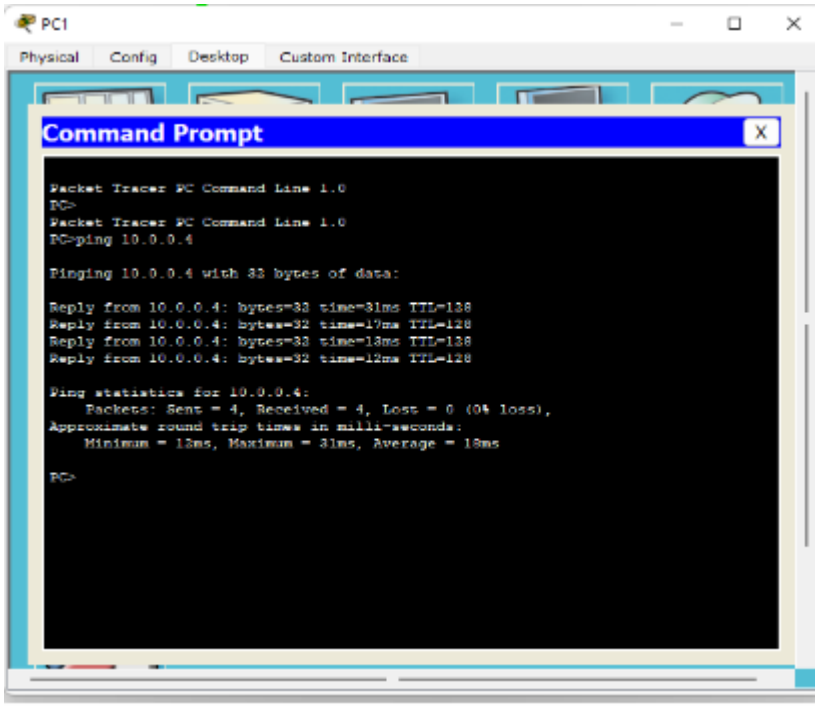
Output :


PC1
Physical
Config
Desktop
Custom Interface
Command Prompt
X
Packet Tracer PC Command Line 1.0
PC>
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.4
Pinging 10.0.0.4 with 32 bytes of data:
Reply from 10.0.0.4: bytes=32 time=31ms TTL=128
Reply from 10.0.0.4: bytes=32 time=17ms TTL=128
Reply from 10.0.0.4: bytes=32 time=13ms TTL=128
Reply from 10.0.0.4: bytes=32 time=12ms TTL=128
Ping statistics for 10.0.0.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 12ms, Maximum = 31ms, Average = 18ms
PC>