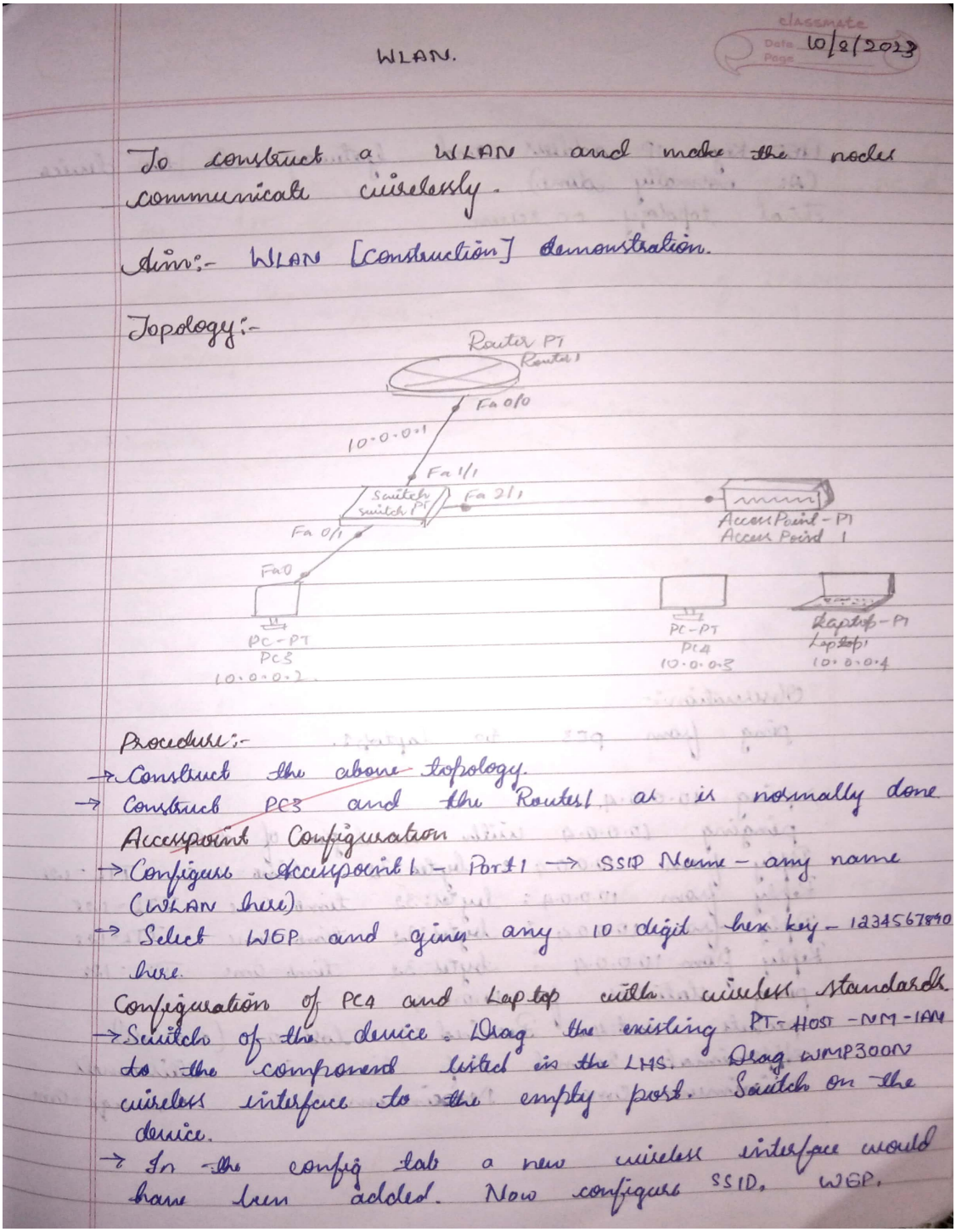
WEEK 11

To construct a WLAN and make the nodes communicate wirelessly

OBSERVATION:



WLAN.

Date 10/8/2023

To construct a WLAN and make the nodes communicate wirelessly.

Aim:- WLAN [construction] demonstration.

Topology:-

Procedure:-

→ Construct the above topology.

→ Construct PC3 and the Router1 as is normally done

Accesspoint Configuration

→ Configure Accesspoint1 – Port1 → SSID Name – any name (WLAN here)

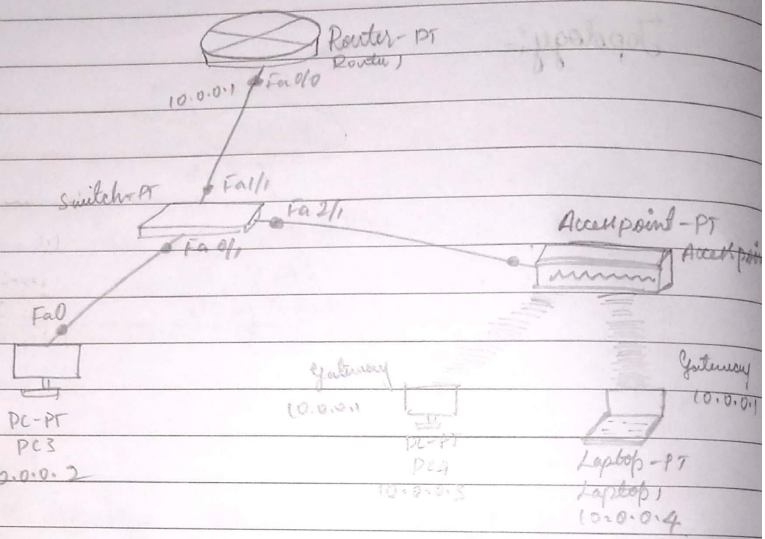
→ Select WEP and giving any 10 digit hex key – 1234567890 here.

Configuration of PC4 and Laptop with wireless standards

→ Switch off the device. Drag the existing PT-HOST-NM-1AM to the component listed in the LHS. Drag WMP300N wireless interface to the empty port. Switch on the device.

→ In the config tab a new wireless interface would have been added. Now configure SSID, WEP.

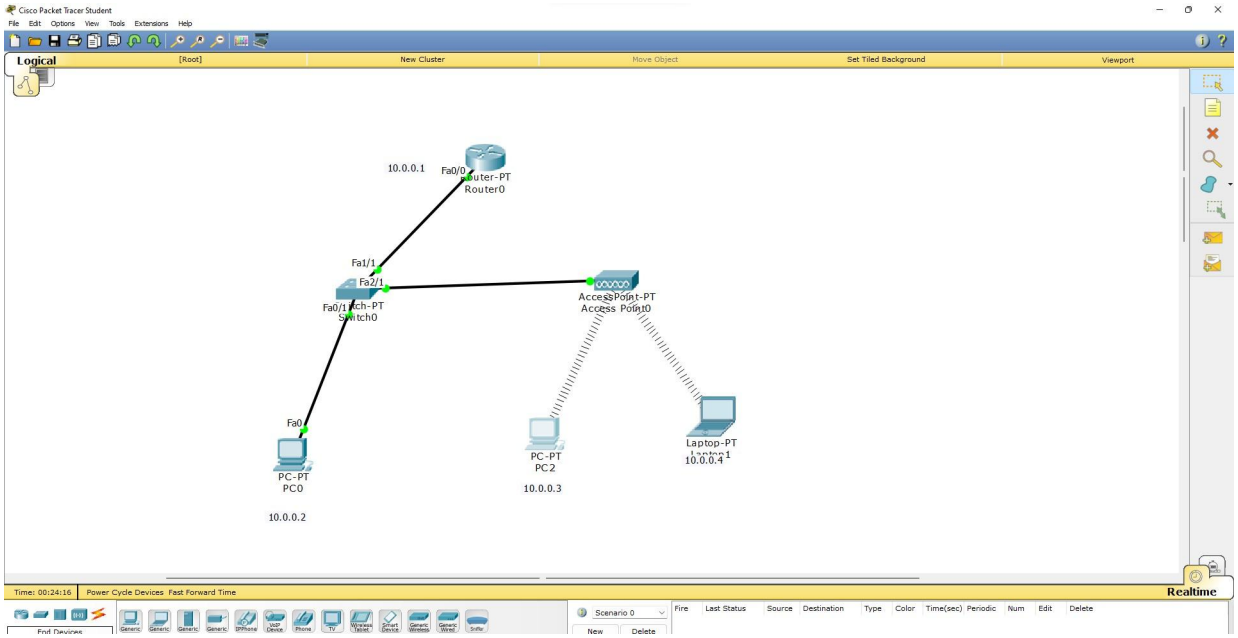
WEP Key, IP address and gateway to the devices (As normally done).
Final topology on screen.

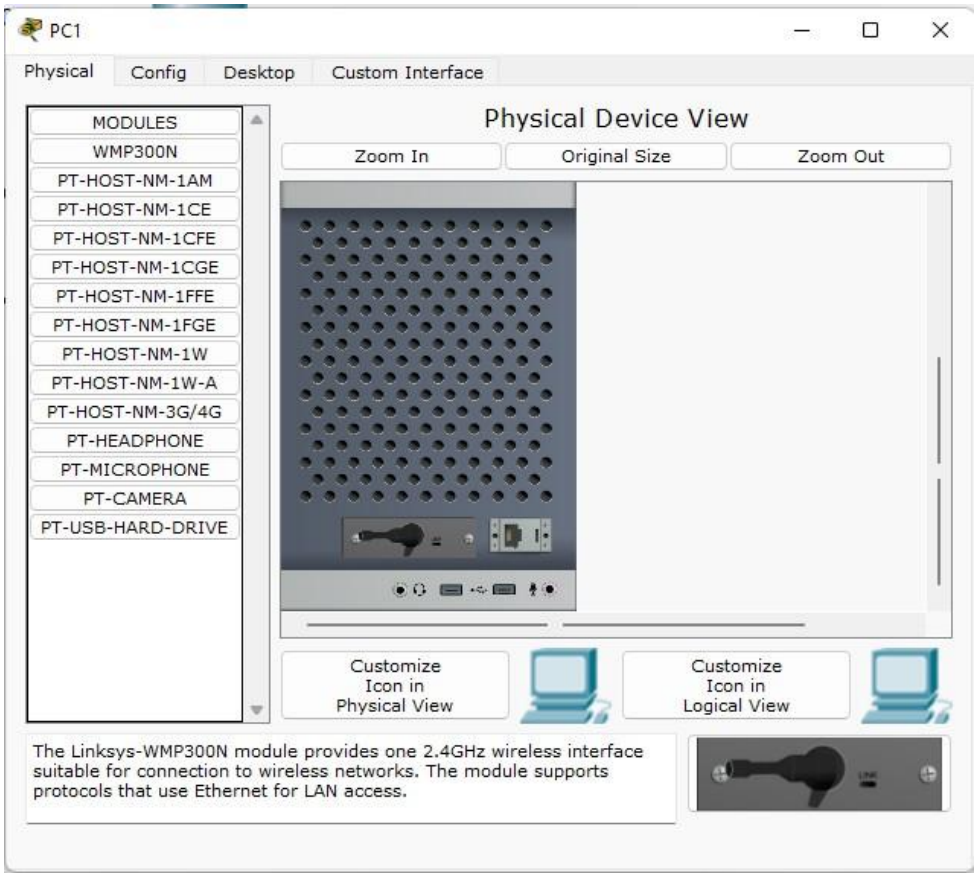


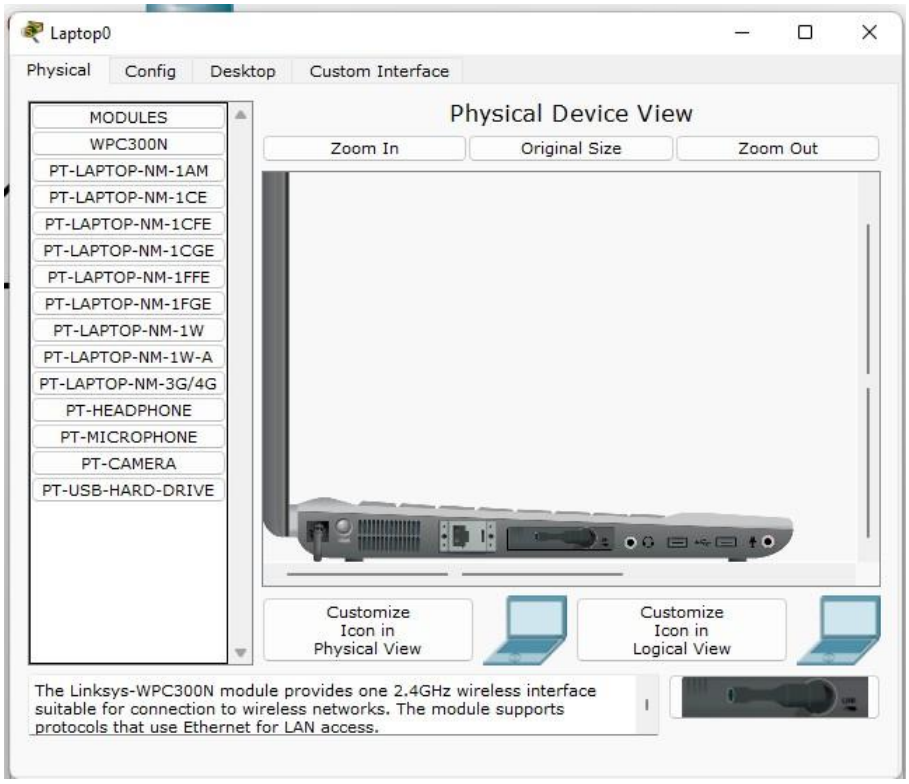
Observation:-
ping from pc3 to laptop1.

>ping 10.0.0.4.
pinging 10.0.0.4 with 32 bytes of data.
Reply from 10.0.0.4 : bytes:32 time=0ms TTL=128.
Reply from 10.0.0.4 : bytes:32 time=0ms TTL=128
Reply from 10.0.0.4 : bytes:32 time=0ms TTL=128
Reply from 10.0.0.4 : bytes:32 time=0ms TTL=128
ping statistics for 10.0.0.4
packets sent:4, Received :4 lost=0 (0% loss)
Approximate round trip times in milliseconds
Minimum=0ms Maximum=0ms Average=0ms

TOPOLOGY:


Cisco Packet Tracer Student
Logical
10.0.0.1
Fa0/0
Router-PT
Router0
Fa1/1
Fa2/1
Fa0/1
Switch0
Access Point-PT
Access Point0
Fa0
PC-PT
PC0
10.0.0.2
PC-PT
PC2
10.0.0.3
Laptop-PT
10.0.0.4
Realtime


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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Original Size
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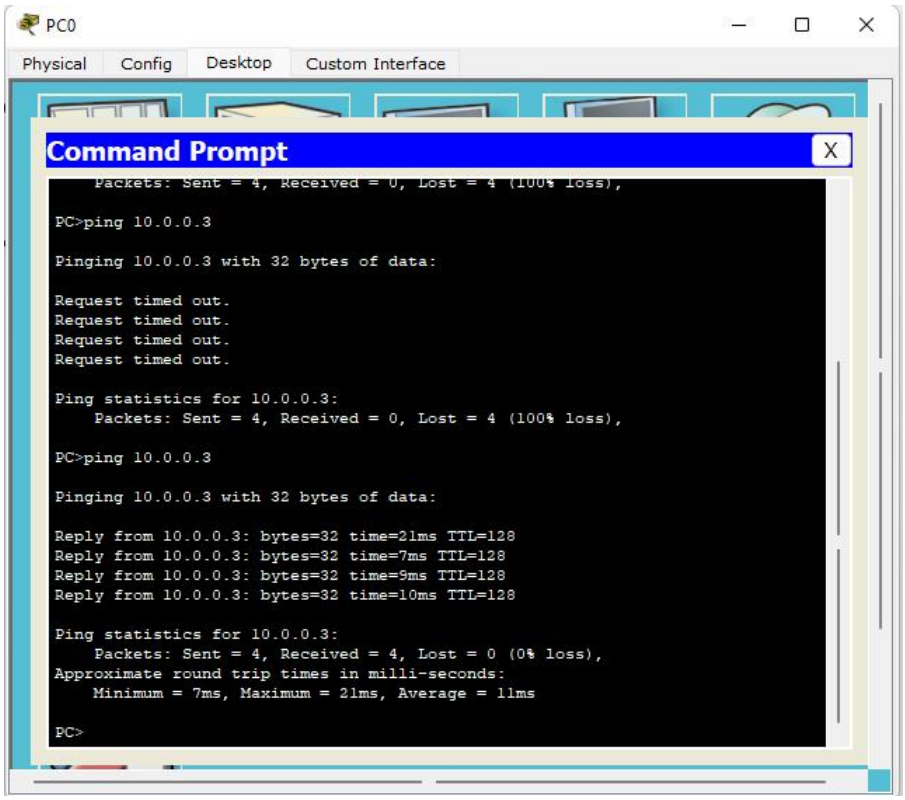
OUTPUT:


PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>ping 10.0.0.3
Pinging 10.0.0.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 10.0.0.3:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>ping 10.0.0.3
Pinging 10.0.0.3 with 32 bytes of data:
Reply from 10.0.0.3: bytes=32 time=21ms TTL=128
Reply from 10.0.0.3: bytes=32 time=7ms TTL=128
Reply from 10.0.0.3: bytes=32 time=9ms TTL=128
Reply from 10.0.0.3: bytes=32 time=10ms TTL=128
Ping statistics for 10.0.0.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 7ms, Maximum = 21ms, Average = 11ms
PC>