

## **WEEK 11**

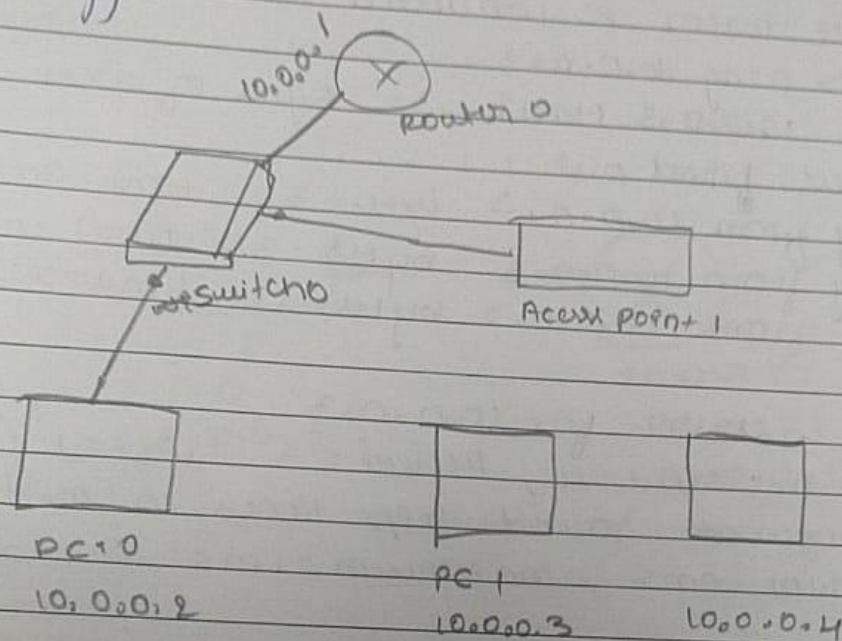
To construct a WLAN and make the nodes communicate wirelessly

OBSERVATION:

Aim:

to construct a WLAN and make the nodes communicate wirelessly

Topology



Procedure

Construct the above topology

Configure PO & Router 0 as normally done

Configure Access point 1 - port 1 -> SSID name - WLAN

Select WEP & give any 10 digit key - 12345678

Configure PC 1 & laptop with wireless standard

Switch off the device Drag the existing PT-Hos

WM-LAN to the component listed in LMS

drag WMP 30N wireless interface to the empty port, connect on the device

- In the config tab a new wireless interface could have been added, now configure SSID, WEP, WEP key, IP address and gateway to the device
- Ping from every device to every other device

Ping output

Packet tracer PC command line 10

PC > 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=0ms TTL=128

Reply from 10.0.0.3: bytes=32 time=0ms TTL=128

Reply from 10.0.0.3: bytes=32 time=2ms TTL=128

Ping statistics for 10.0.0.3

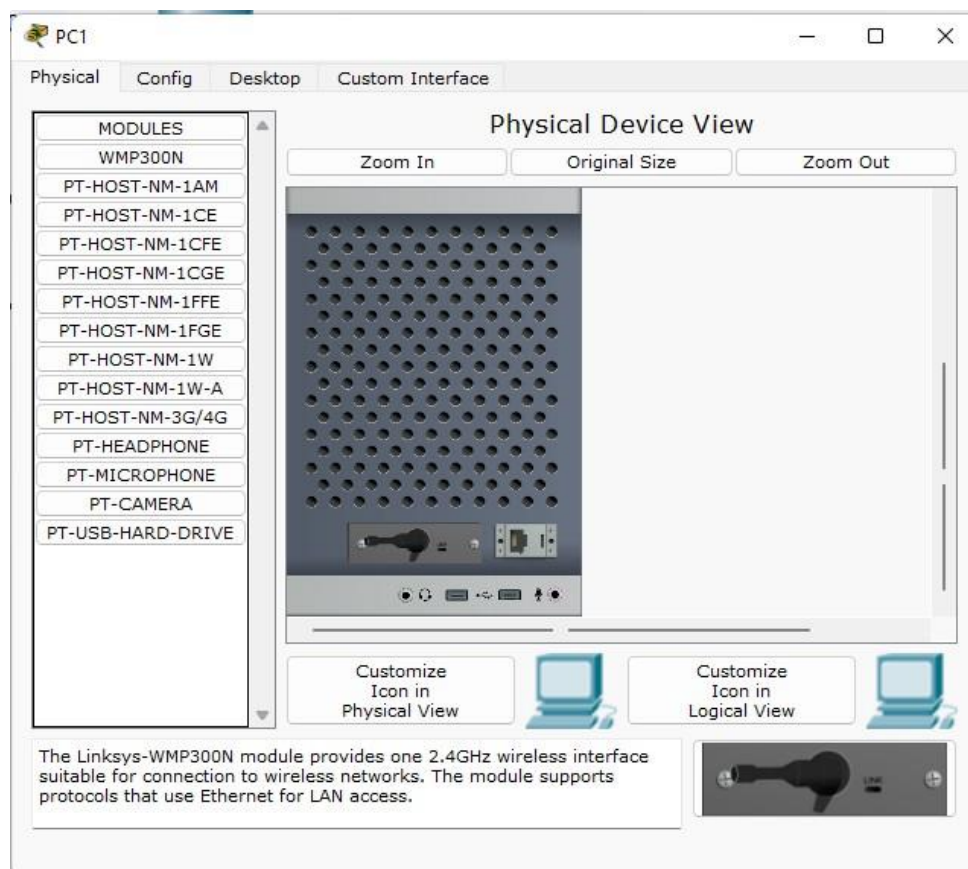
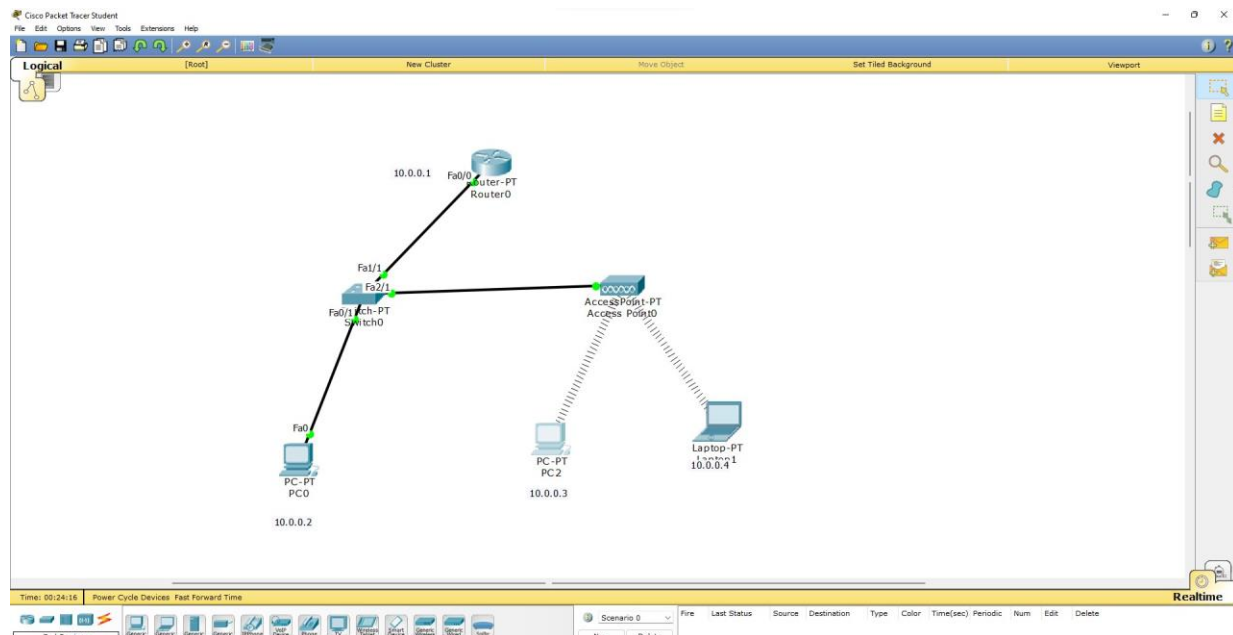
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss)

Approximate round trip times in milliseconds:  
Minimum = 0ms, Maximum = 1ms, Average = 0ms

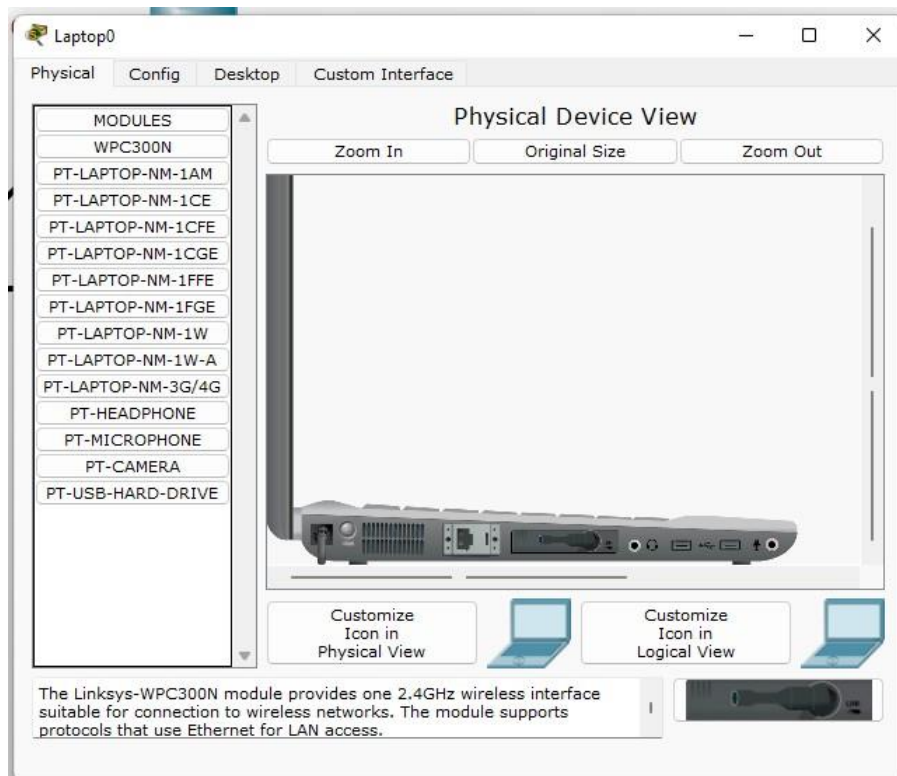
Observation

- A WLAN is a group of collocated devices that form a network based on radio transmissions.
- Data sent in packets contain labels with endpoints for routing. MAC address to each endpoint.
- The Access point is the base station that serves as a hub to which other stations connect.
- With one access point we can connect to multiple devices wirelessly & transmit data.

## TOPOLOGY:







OUTPUT:

