Lab-08 [ii]

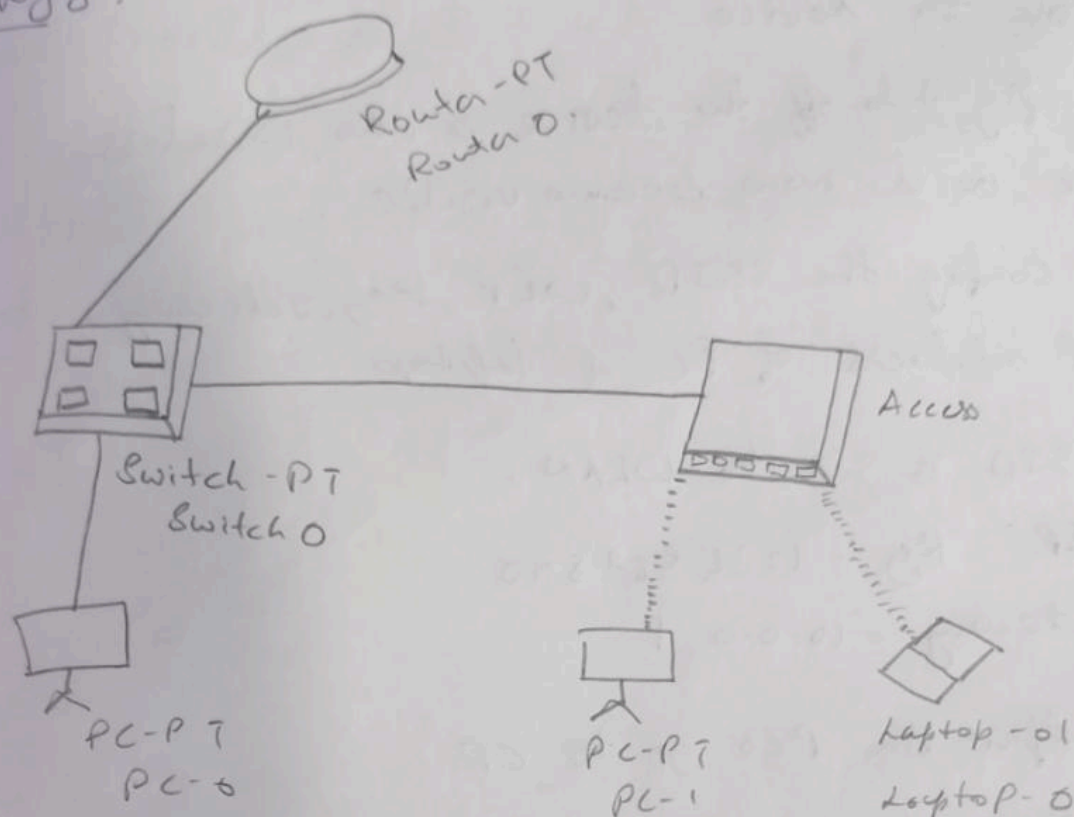**Aim:-** To construct a WLAN and make the nodes communicate wire lessly.

Topology:-

Procedure

- Create the topology as shown above.
- Configure the PC's as normally we do configure PC3

  IP address : 0.0.0.2

- Configure router 0.

  Set the IP address as 10.0.0.1 for Pc 0/0

- Configure the Access Point -PT in Config

  Port-1

  SSID-WLAN

  Select WEP & give any 10 digit number as Password
  1234567890

- To Configure PC4 and laptop with wireless standard. Switch off the device

Drag the existing PT-Host -NM-1AM to btts
to place it on its mentioned name.

A
D — Drag the WMP300N wireless interface to empty
    Port.

J Switch on the device.

→ On config tab off the device a new wireless
interface will now become visible..

→ Now config the SSID, WEP, key, gateway
    & IP address of PC & laptop

   the SSID is set to WLAN.

     WEP   Key - 1234567890
P
     gateway = 10.0.0.1

= Ping output on PC0 go to CP

    PC > Ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data.

Reply from 10.0.0.4 with 32 bytes of data!
Reply from 10.0.0.4 bytes=32 time=25ms TTL=127
Reply from 10.0.0.4 bytes 32 time=5ms TTL=127
Reply from 10.0.0.4 bytes 32 time=12ms TTL=127

    Ping statistics for 10.0.0.4

Packets sent =4, Recieved =4, lost 0. (0% loss).
   Approximate round trip time in ms.

    min = 5ms make = 2hms
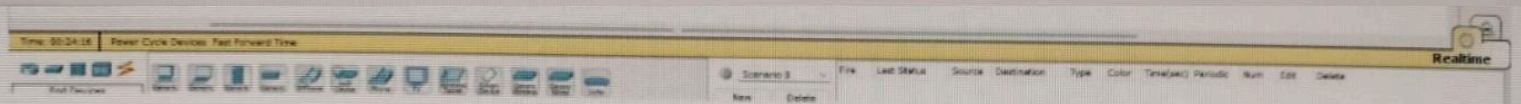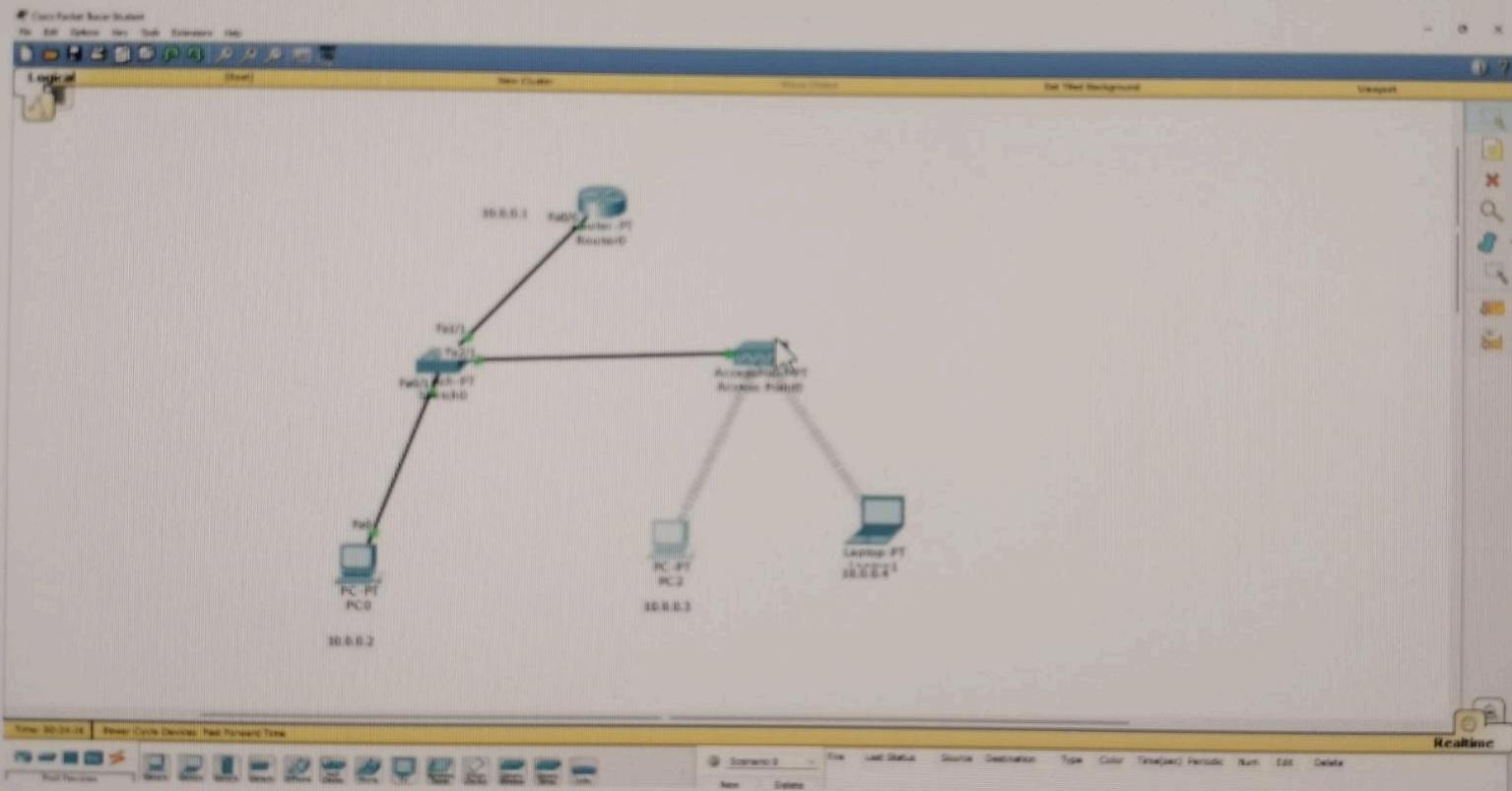   Average =4.

observation

We can ping each and every device to the other device.

So we can observe that wires connection is done successfully.

When connection is established there can observe stripped lines connecting access points + the end devices.

NP
13/8/23

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**

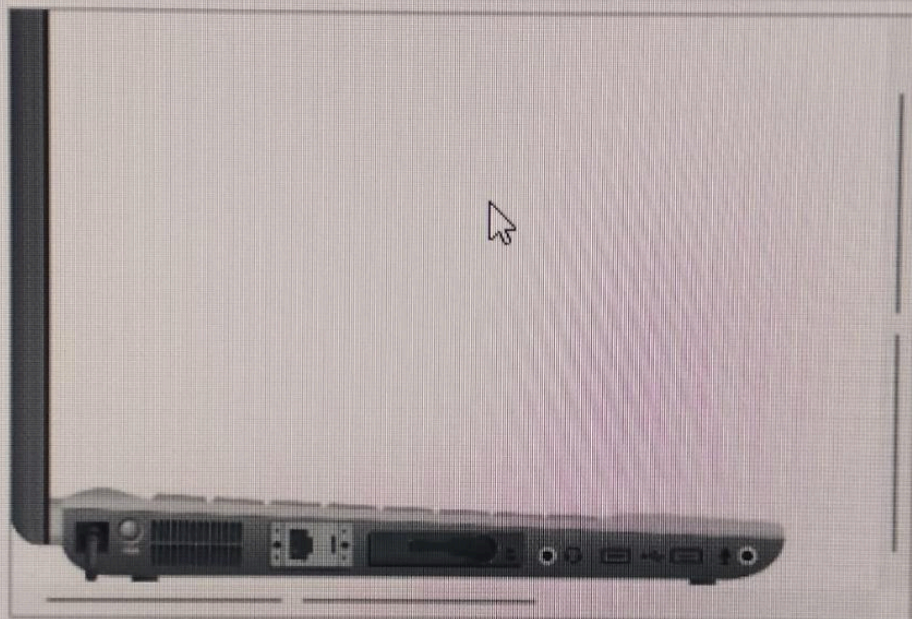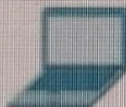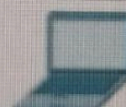| MODULES |
| --- |
| WPC300N |
| PT-LAPTOP-NM-1AM |
| PT-LAPTOP-NM-1CE |
| PT-LAPTOP-NM-1CFE |
| PT-LAPTOP-NM-1CGE |
| PT-LAPTOP-NM-1FFE |
| PT-LAPTOP-NM-1FGE |
| PT-LAPTOP-NM-1W |
| PT-LAPTOP-NM-1W-A |
| PT-LAPTOP-NM-3G/4G |
| PT-HEADPHONE |
| PT-MICROPHONE |
| PT-CAMERA |
| PT-USB-HARD-DRIVE |

Physical Device View

Zoom In   Original Size   Zoom Out

Customize
Icon in
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Customize
Icon in
Logical View

The Linksys-WPC300N module provides one 2.4GHz wireless interface
suitable for connection to wireless networks. The module supports
protocols that use Ethernet for LAN access.

Command Prompt

```
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>
```