

18/12/2024

## Experiment 12

### Observation Book:

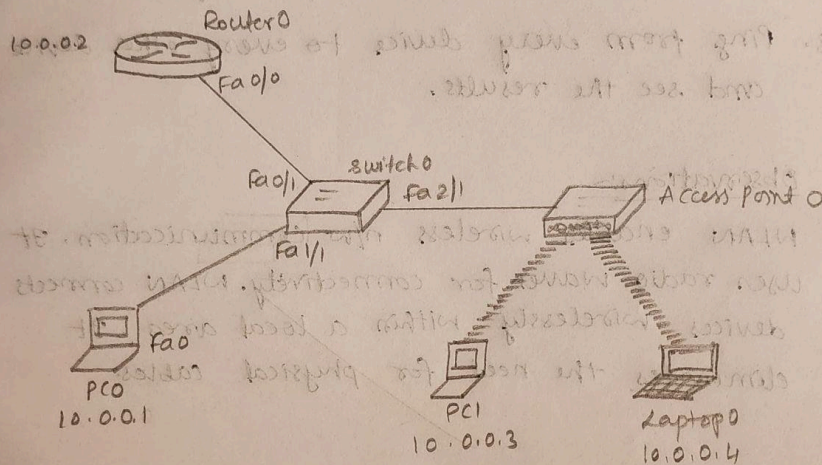
18/12/2024

exp-12

Question: To construct a WLAN and make the nodes communicate wirelessly.

Aim: Construct WLAN and make nodes communicate wirelessly.

Topology:



Procedure:

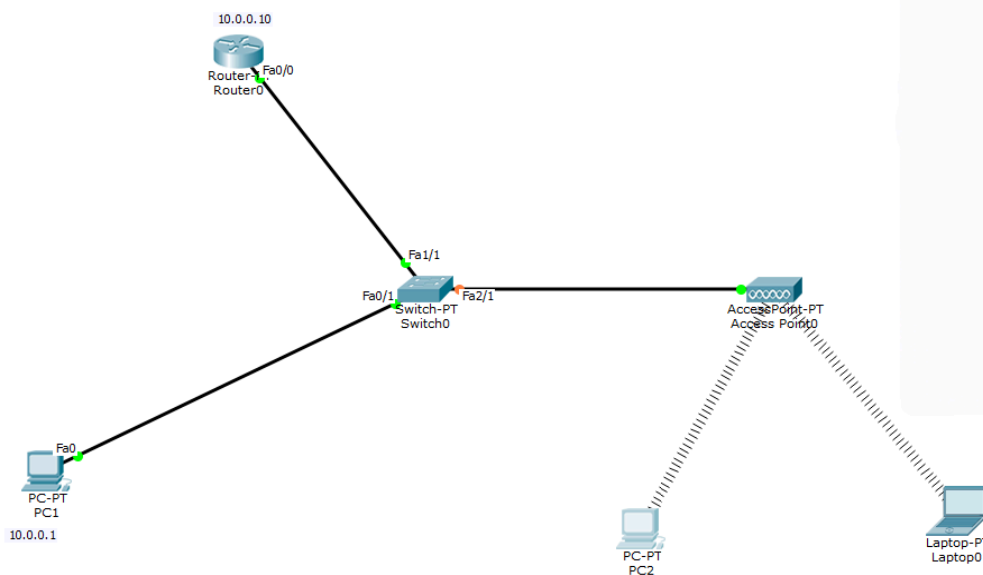
1. Configure with IP addresses as per shown in the topology.
2. Plug a switch and connect it to a PC, router and access point.
3. Place a PC and a laptop without any wired connection.
4. Configure PC0 with IP address 10.0.0.1 and router0
5. Configure access point:  
port 1 → SSID Name → enter any name → select WEP and give any 10 digit key -1234567890

6. 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.
7. In the config tab, a new wireless interface would have been added. Now configure SSID, WEP, WEP Key, IP address and gateway to the device.
8. Ping from every device to every other device and see the results.

#### Observations:-

WLAN enables wireless n/w communication. It uses radio waves for connectivity. WLAN connects devices wirelessly within a local area. It eliminates the need for physical cables.

#### Topology:



Output:

