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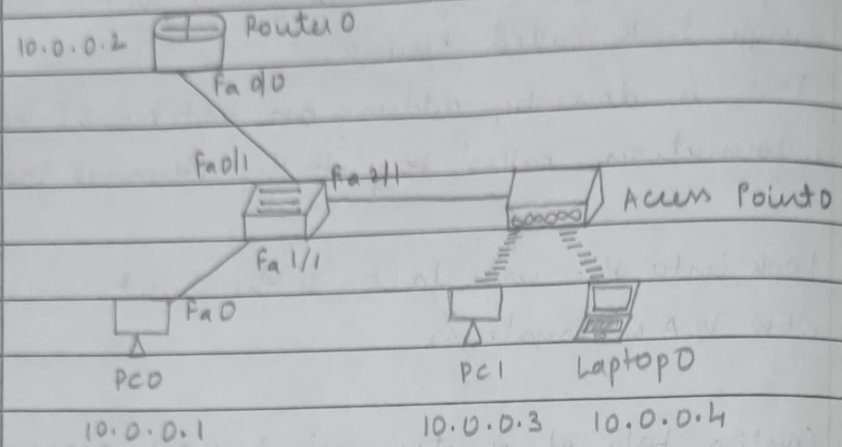
Experiment 11: Construct a WLAN and make the nodes communicate wirelessly

Aim: To construct WLAN and make nodes communicate wirelessly.

Topology:



Connect a router & access point to a switch through fastethernet interface. Connect a PC and set its ip address. Take a PC & a laptop & set their ip addresses.

Procedure:

1. Drag a switch & connect it to a PC, router & an access point
2. Place a PC & laptop without any wired connection
3. Configure PC0 with ip address 10.0.0.1 & router 0.
4. Configure Access Point:
   Port 1 → SSID Name → Enter any name → select

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WEP & give any 10 digit hex key - 1234567890

5. Configure PC4 & laptop with wireless standards

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 & gateway to the device

8. Ping from every device to every other device & see the results.

Observations:

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