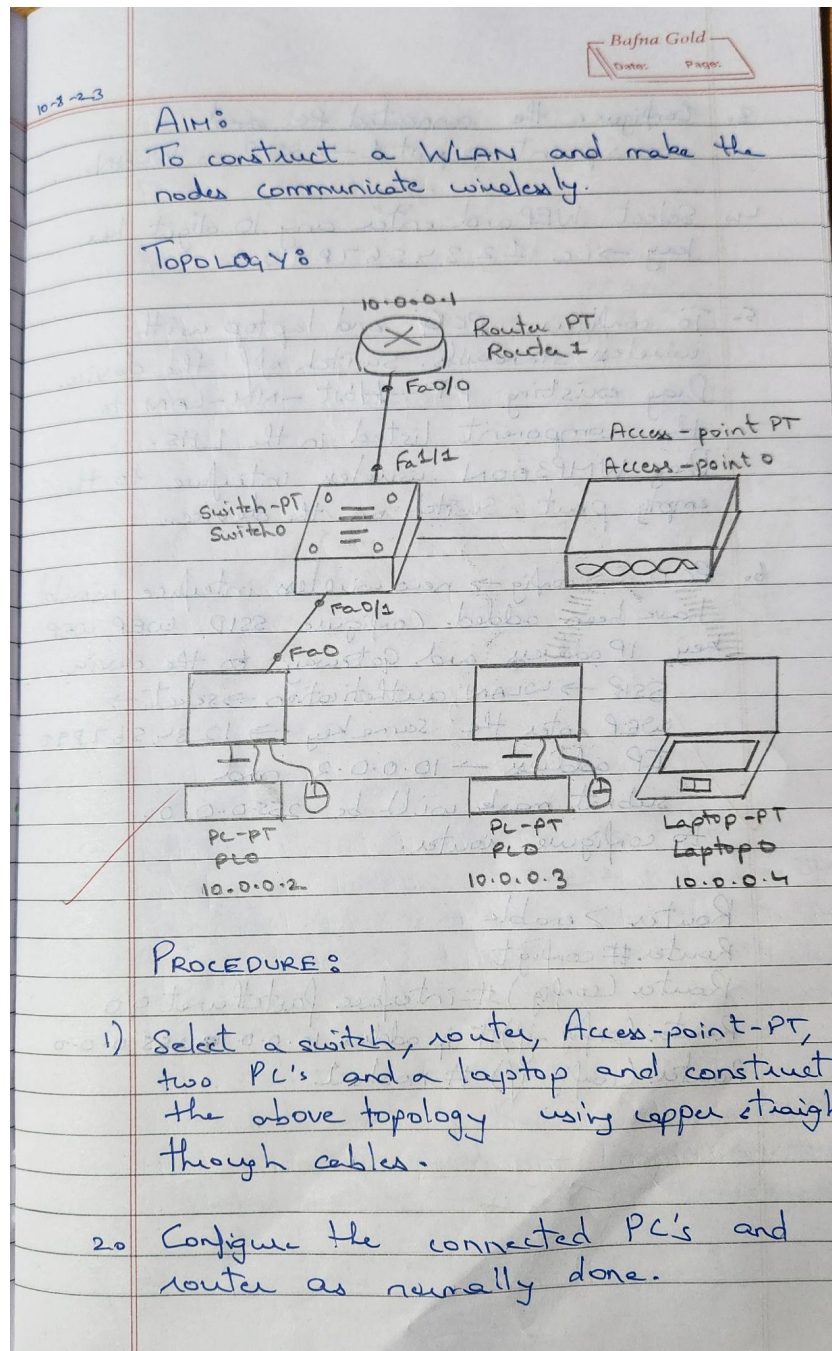


EXPERIMENT 12

AIM:

To construct a WLAN and make the nodes communicate wirelessly.

OBSERVATION:



3. Configure the connected PC and access point → part 1 → SSID as WLAN.

4. Select WEP and enter any 10 digit hex key → i.e 1234567890.

5. To configure PC0 and laptop with wireless standards. Switch off the device. Drag existing PT → Host - NM - LAN to the component listed in the LHS. Drag WMP300N wireless interface to the empty port. Switch on the device.

6. PC0 → config → new wireless interface would have been added. Configure SSID, WEP, WEP key, IP address and Gateway to the device. SSID → WLAN, authentication → select → WEP enter the same key → 1234567890 IP address → 10.0.0.3 and subnet mask will be 255.0.0.0. to configure router.

Router > enable

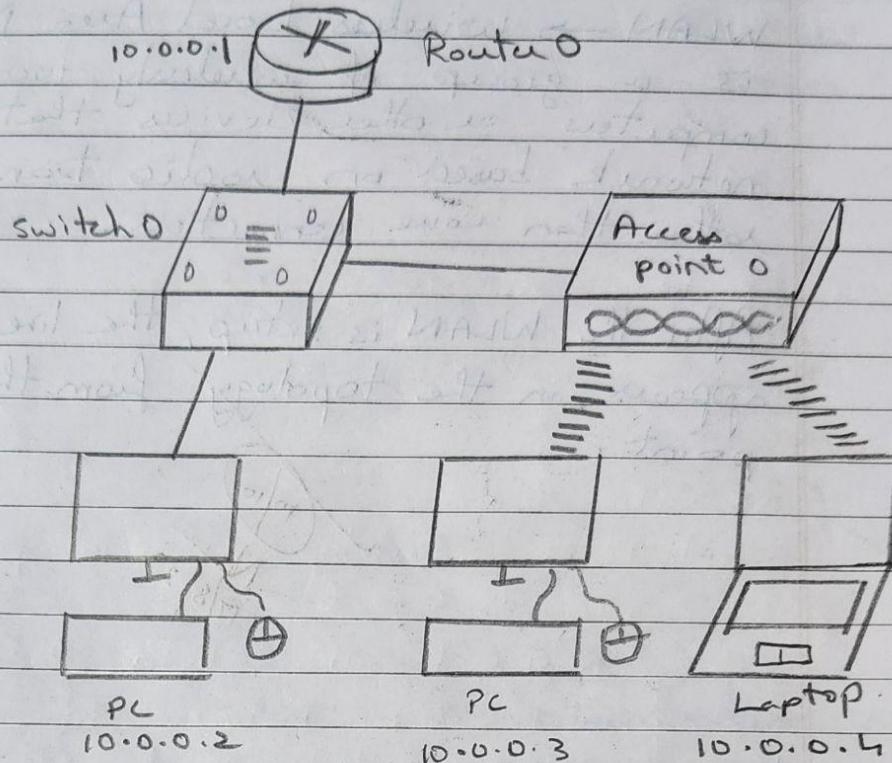
Router # config t

Router (config) # interface fastethernet 0/0

Router (config-if) # ip address 10.0.0.1 255.0.0.0

Router (config-if) # no shut

RESULT:



In PC 0 (10.0.0.2)

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=22ms TTL=128

Reply from 10.0.0.3: bytes=32 time=10ms TTL=128

Reply from 10.0.0.3: bytes=32 time=4ms TTL=128

Reply from 10.0.0.3: bytes=32 time=5ms TTL=128

Ping statistics for 10.0.0.3:

Packets: Sent=4, Received=4, Lost=0

Approximate round trip times in milli-seconds:

Minimum=4ms, Maximum=22ms, Average=10ms

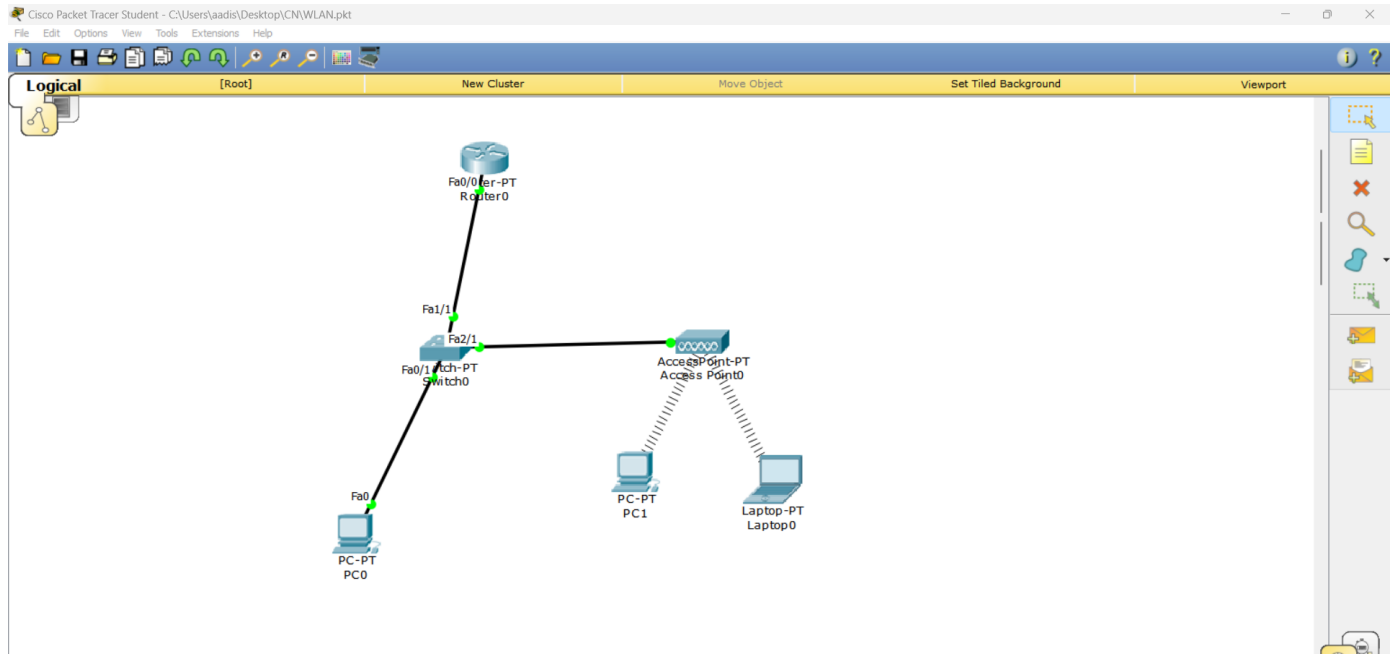
OBSERVATION:

WLAN → Wireless Local Area Network is a group of wirelessly located computers or other devices that form a network based on radio transmissions rather than wire connections.

After the WLAN is setup, the wired connection appears in the topology from the access point.

10/10
17/8/23

Result:



The screenshot shows the 'PC0' window in Cisco Packet Tracer, with the 'Config' tab selected. A 'Command Prompt' window is open, displaying the results of a ping command. The text in the command prompt is as follows:

```
Packet Tracer PC Command Line 1.0
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=32ms TTL=128
Reply from 10.0.0.3: bytes=32 time=9ms TTL=128
Reply from 10.0.0.3: bytes=32 time=16ms TTL=128
Reply from 10.0.0.3: bytes=32 time=11ms 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 = 9ms, Maximum = 32ms, Average = 17ms

PC>
```