

EXPERIMENT-12

Question 12:

To construct a WLAN and make the nodes communicate wirelessly

Observation :

EXPERIMENT-12

AIM: To construct a WLAN and make the nodes communicate wirelessly

Topology

Procedure

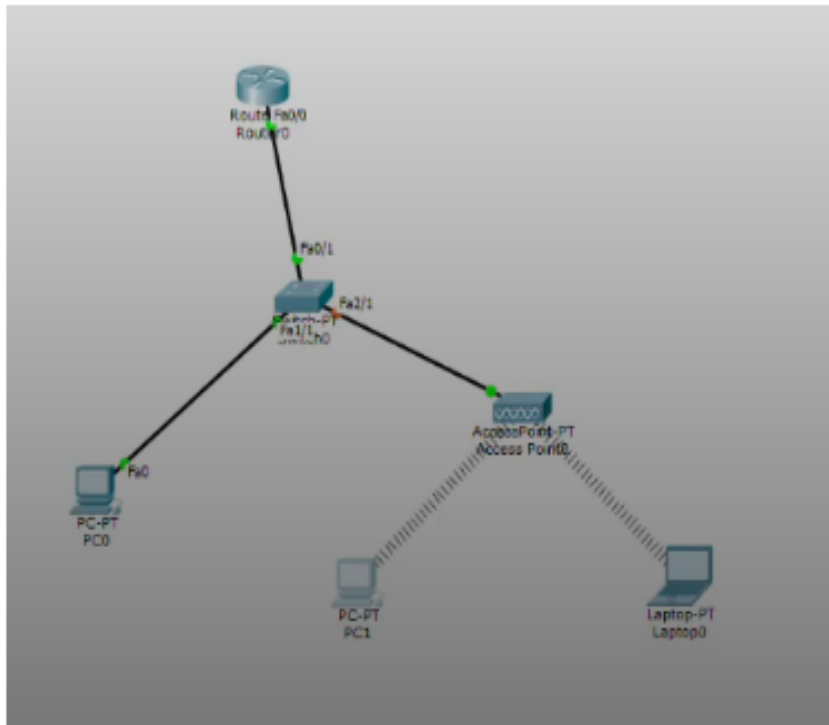
1. Construct the above topology
2. Configure PCs and the Router as is normally done
3. Configure Access Point 1 - Port 1 → SSID Name → any name (wlan1 here)
4. Select WEP and give any 16 digit hex key - 1334567890
5. Configuring PC1 and PC2 with wireless standards switch off the device. Drag the existing PT-HOST-12AM to the component listed in the LHS. Drag 802.11b/g wireless interface to the empty slot post switch on the device
6. 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
7. Ping from every device to every other device.

Observations

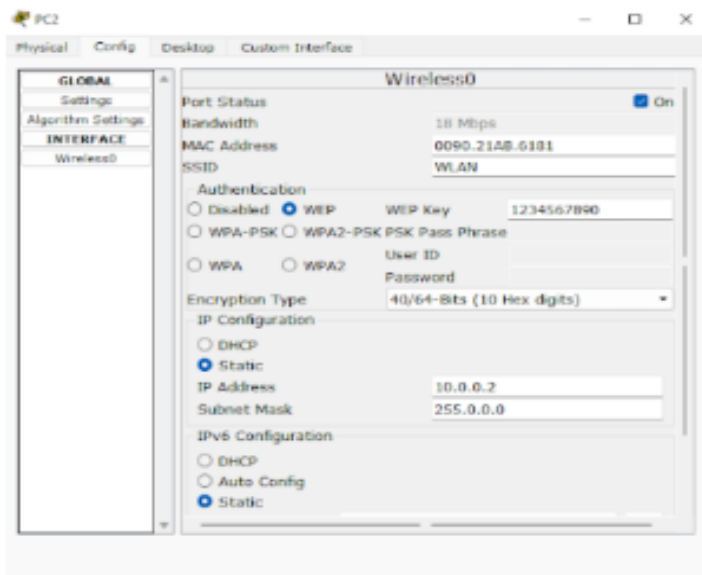
WLAN enables wireless network communication. It uses radio waves for connectivity. WLAN connects devices wirelessly within a local area. It eliminates the need for physical cables.

Q. No. 12

Screenshot of the topology:



Screenshot of the output:



```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=15ms TTL=120
Reply from 10.0.0.2: bytes=32 time=13ms TTL=120
Reply from 10.0.0.2: bytes=32 time=5ms TTL=120
Reply from 10.0.0.2: bytes=32 time=0ms TTL=120

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 5ms, Maximum = 15ms, Average = 11ms
```