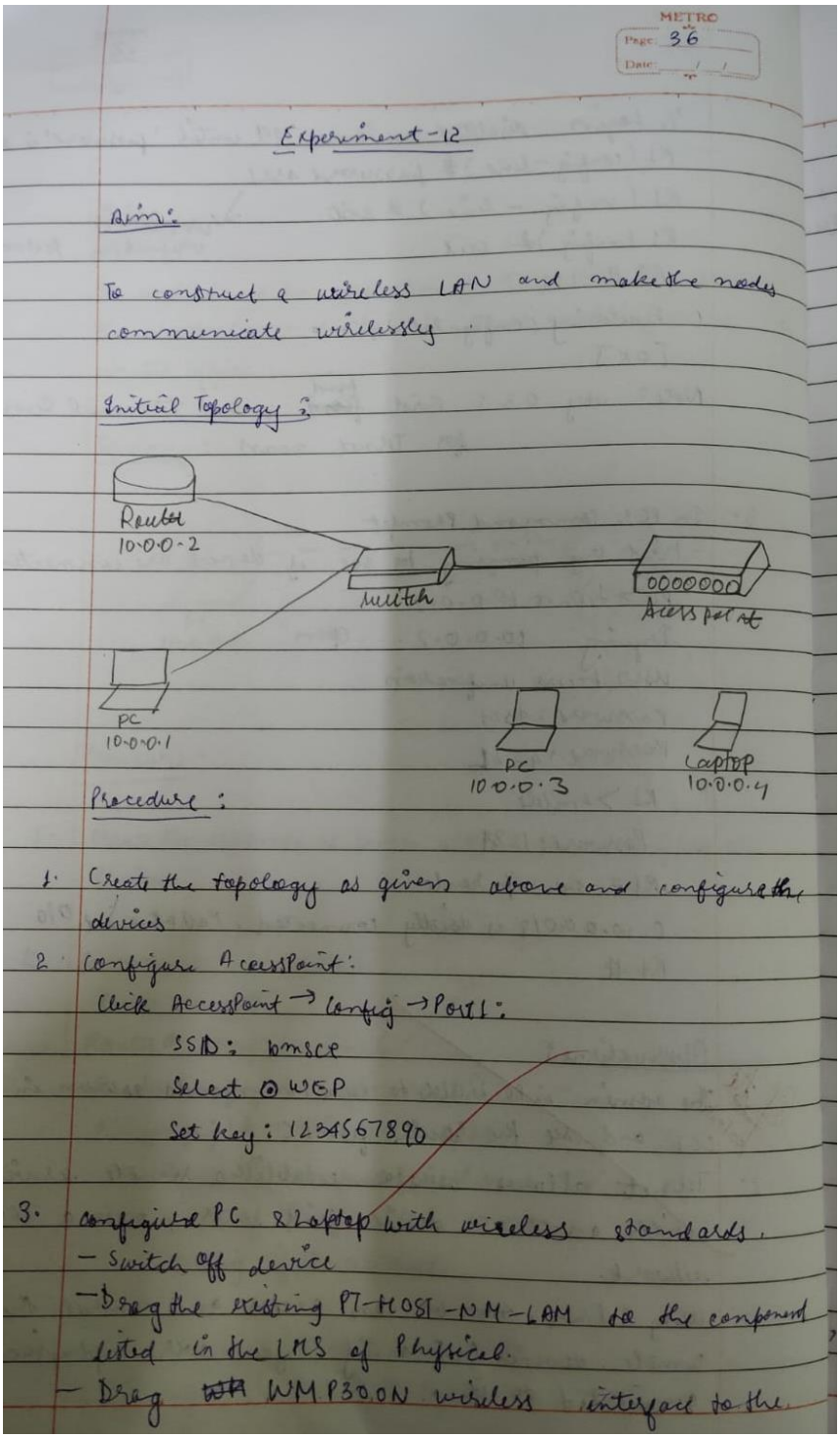
Program 13

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

Topology , Procedure and Observation:



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Experiment - 12

Aim:

To construct a wireless LAN and make the nodes communicate wirelessly.

Initial Topology:

Procedure:

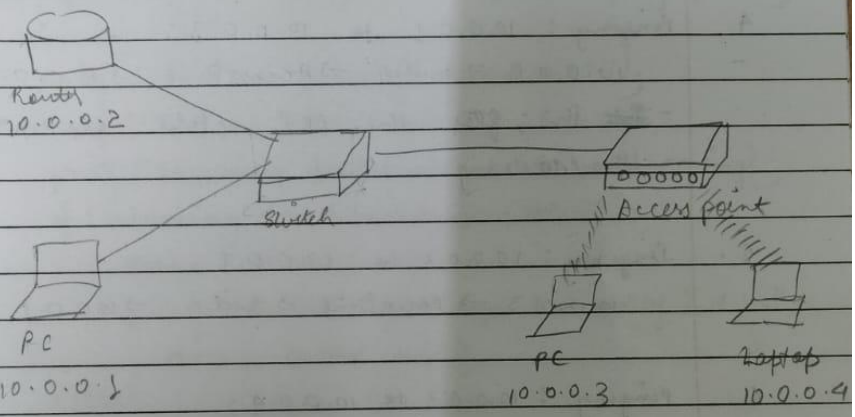
1. Create the topology as given above and configure the devices
2. Configure AccessPoint:
   Click AccessPoint → Config → Port1:
   SSID: bmsce
   Select ⊙ WEP
   Set key: 1234567890
3. Configure PC & Laptop with wireless standards.
   - Switch off device
   - Drag the existing PT-HOST-NM-1AM to the component listed in the LMS of Physical.
   - Drag ~~WPA~~ WMP300N wireless interface to the

empty port
- Switches on the device

4. In the config tab, a new wireless interface was added.

5. Configure the device by entering SSID, WEP, WEP key, IP address and Gateway.

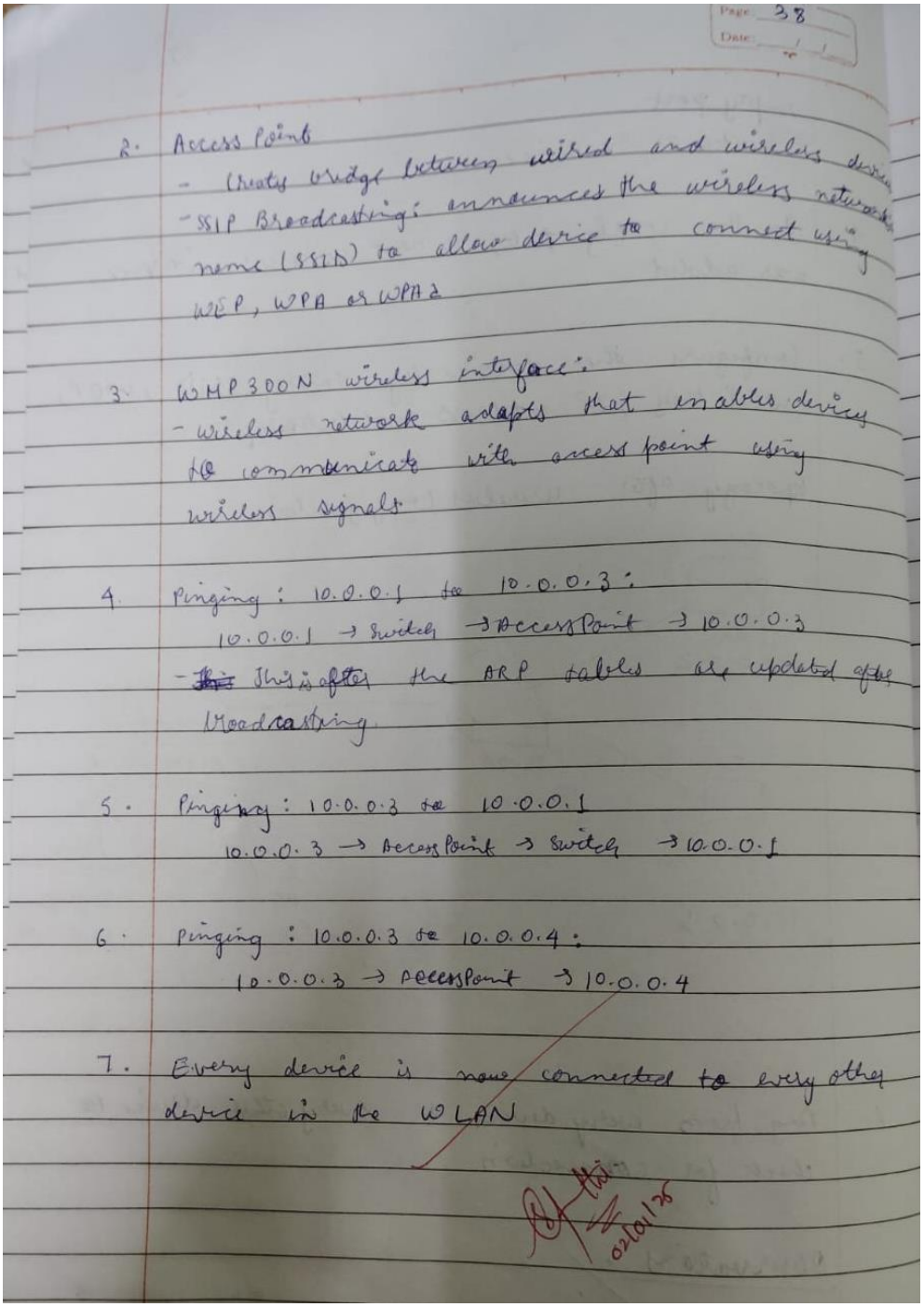
Topology after wireless configuration:



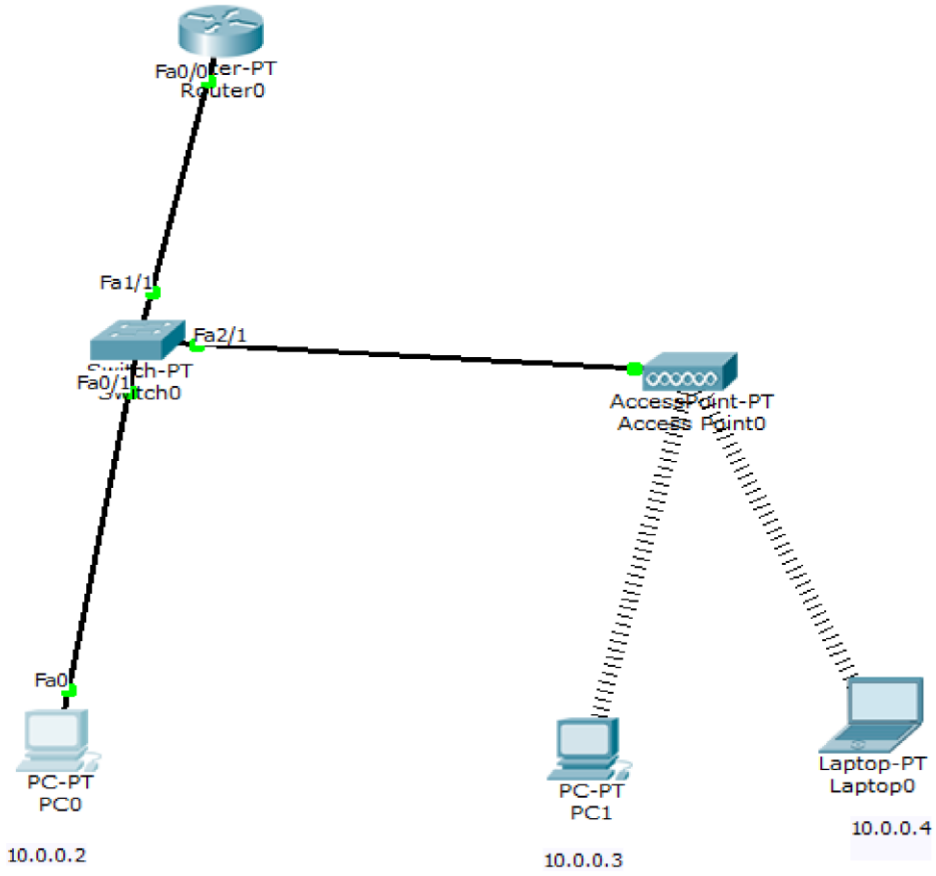
6. Ping from every device to every other device to check for connection

Observations:

1. We were able to ping from every device to every other device.



Screen Shots:



PC0

Physical | Config | Desktop | Custom Interface

Command Prompt

```
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=22ms TTL=128
Reply from 10.0.0.3: bytes=32 time=6ms TTL=128
Reply from 10.0.0.3: bytes=32 time=3ms TTL=128
Reply from 10.0.0.3: bytes=32 time=7ms 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 = 3ms, Maximum = 22ms, Average = 9ms

PC>ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes=32 time=19ms TTL=128
Reply from 10.0.0.4: bytes=32 time=5ms TTL=128
Reply from 10.0.0.4: bytes=32 time=6ms TTL=128
Reply from 10.0.0.4: bytes=32 time=7ms TTL=128

Ping statistics for 10.0.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 5ms, Maximum = 19ms, Average = 9ms

PC>
```