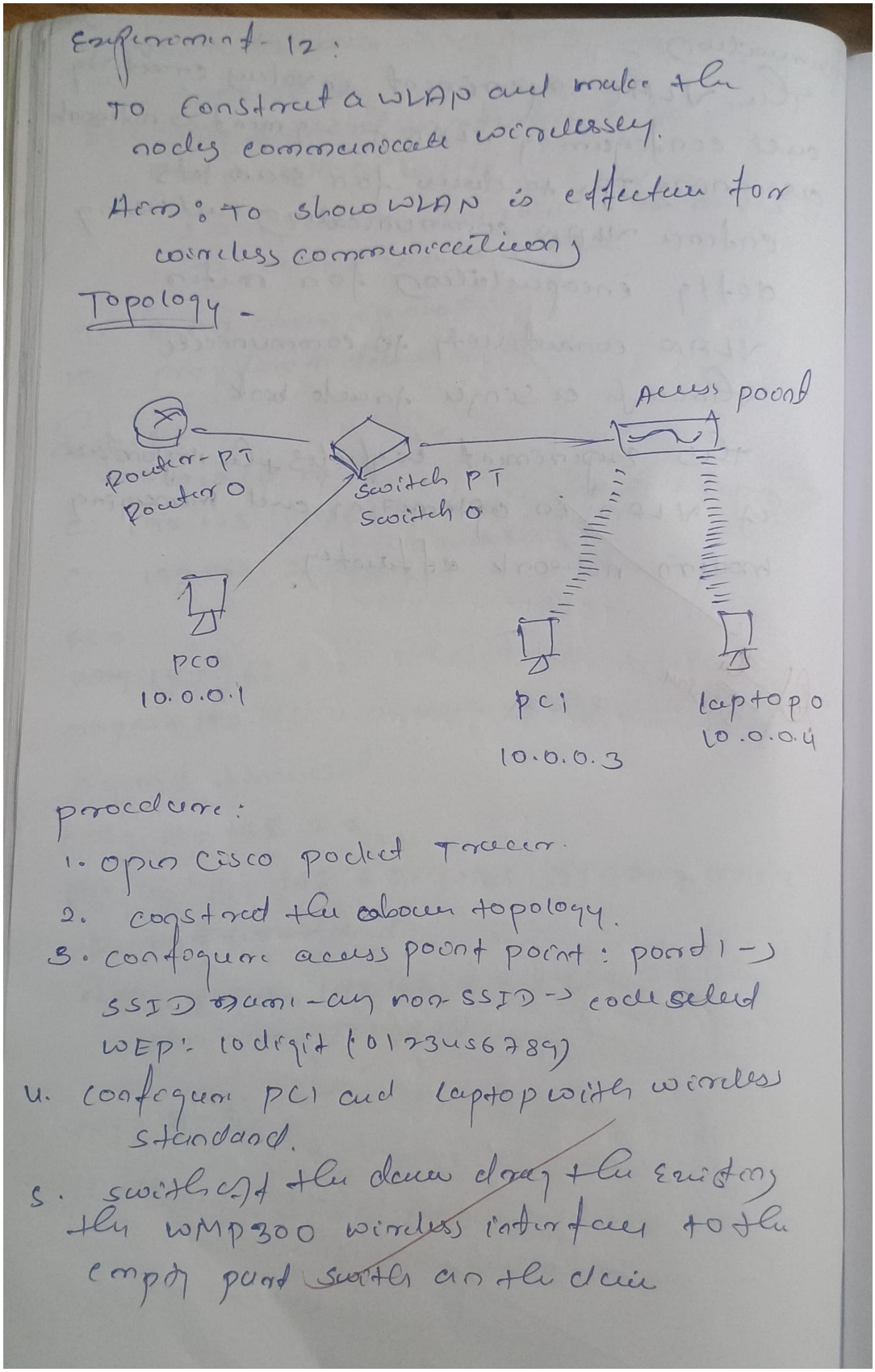
18|12|2024 Experiment 12- To construct a WLAN and make the nodes communicate wirelessly

Observation Book:



6. In config tab a new wireless interface would have been added, Now configure SSID → coal select WEP → 10 digit WEP key. IP address and gateway to the device

7. ping from either device

8. Setup PC0, route as normally done.

Result:

PC0:

1- ping 10.0.0.3

pinging 10.0.0.3 with 32 bytes of data

Reply from 10.0.0.3, bytes = 32 time = 1ems
TTL = 128

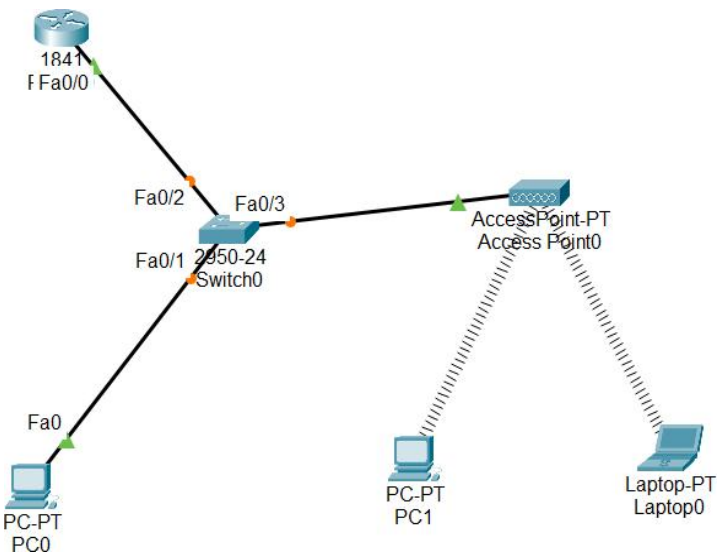
:

ping statistics
same for other device

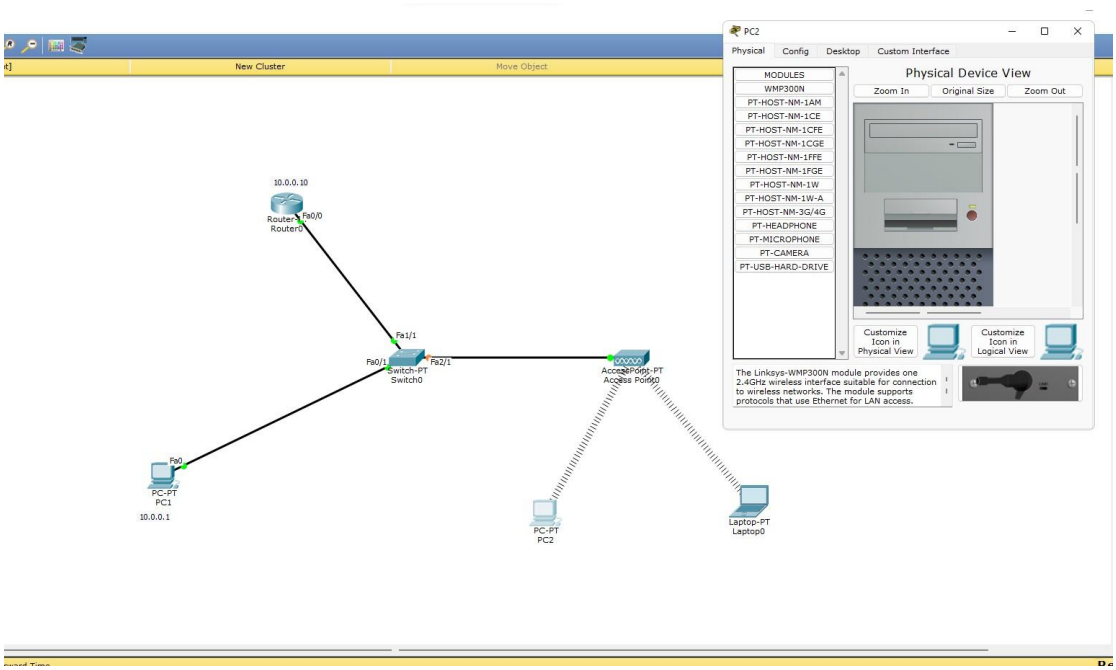
observation:

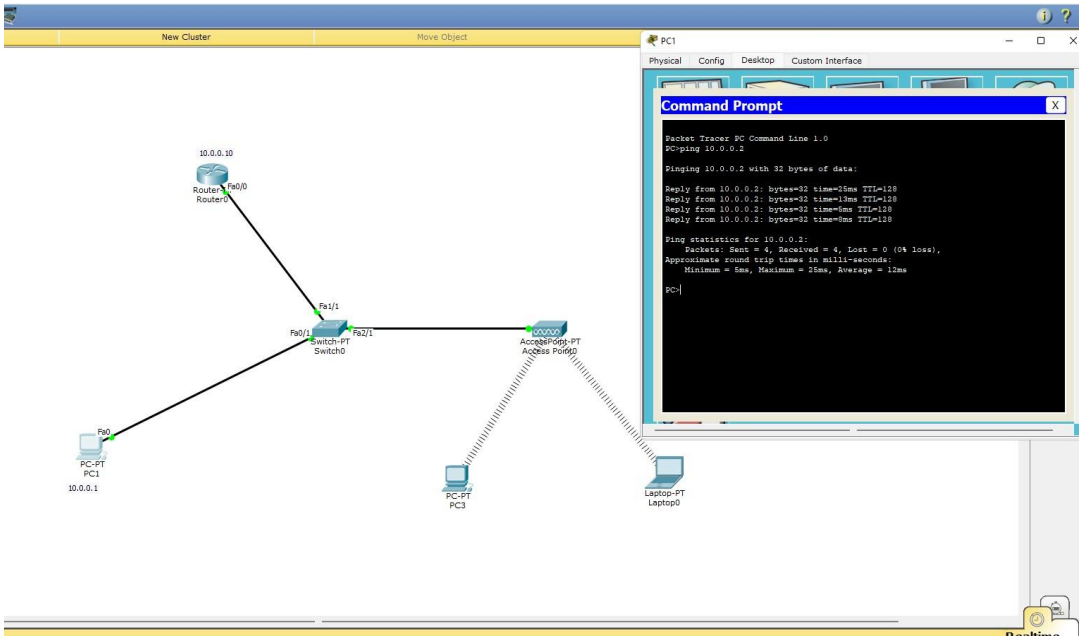
The experiment demonstrates the creation of a wireless network using an access point configuration with an SSID, WEP encryption and a 10 digit key. device like PCs and Laptop were configured with wireless adapter IP address and gateway to enable communication. The success of ping test b/w device verify the setup, highlighting the simplicity and efficiency of WLAN connection for wireless communication

Topology:



Output:




New Cluster
Move Object
10.0.0.10
Router-PT
Router0
Fa0/0
Fa1/1
Fa0/1
Switch-PT
Switch0
Fa2/1
AccessPoint-PT
Access Point0
Fa0
PC-PT
PC1
10.0.0.1
PC-PT
PC3
Laptop-PT
Laptop0
PC1
Physical
Config
Desktop
Custom Interface
Command Prompt
X
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=25ms TTL=128
Reply from 10.0.0.2: bytes=32 time=13ms TTL=128
Reply from 10.0.0.2: bytes=32 time=6ms TTL=128
Reply from 10.0.0.2: bytes=32 time=9ms TTL=128
Ping statistics for 10.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 6ms, Maximum = 25ms, Average = 12ms
PC>