# LAB PROGRAM - 11

Q) To construct a WLAN and make the nodes communicatewirelessly

# **Procedure:**

C@MPASS
Date: Iolela
M T W T F S S
Facerither
Aim: To Construct a wear and make the modes
Communicate winelessly.
24.3 16 9.240 NI I F
Topology:
Router of Router of
100011 FP'10/
IROS FORT - PT
South
Ta 0/4 (Henry) aldisinov ) 4340 =
10.0.0.2 PR-PT / LAPTOP 0
10.0.0.3
words in each was nin a votume of water at boundary
did 18 100 m Pl 31 8 A
Parocedone: 88 ST 19524 JAT 4
59:066 Cr Cr O
Step 1: Constituct a topology as shown above. Configure
Pr-0 and showter -0 as normally done. [i.e set If
and gateway of PC and Configure Router using CLI3
11.2. ( 11 ( )
step 2: Configure Access point.
Access point o -> 15TO (give a name Eq.: WLAN)
Select WEP -> WEP Key -> 1234567890 (10 digit hex Key)
Step 3: Configure PC-1 and LAPTOPO with wishelps
Switch, on device. Interface to the empty port.
smod of

Step 5: In the (onlig tab of (PC-1 & Laptop 0) a new wineless interface would have been added. (onligure SSIP, WEP key, IP Address, (nateway (10.0.0.1) to the device.

#### Result:

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=19m1 TTL=128

Reply from 10.0.0.3: bytes=32 time=19m5 TTL=128

Reply from 10.0.0.3: bytes=32 time=10m5 TTL=128

Reply from 10.0.0.3: bytes=32 time=10m5 TTL=128

Reply from 10.0.0.3: bytes=32 time=10m5 TTL=128

Ping statistics for 10.0.0.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0 y. Loss)

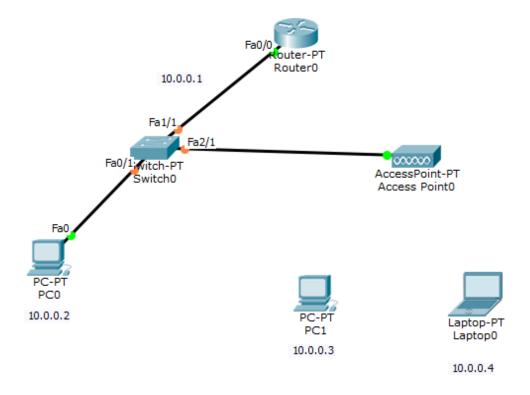
Approximate should total primes in milli-seconds:

Minimum = 8ms, Maximum = 19ms, Average = 11ms

#### observation:

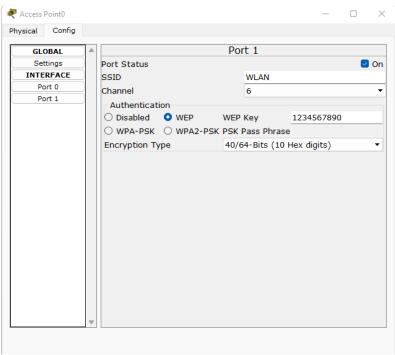
that Joseph a network based on radio transmissions. ULAN
transmits information over radio wores: Data is sent in Joseph
of packets. Each packet (onsists of layers, dabels and instructions
with unique MAC address assigned to end points.
Access point is a base station that somes as a bridge between
wired and wireless networks. Through Access points we can
connect to multiple devices wirelessly and bransmit data.

# **Topology:**

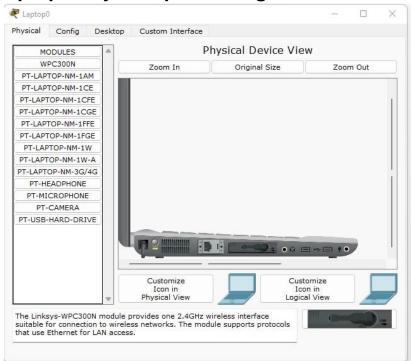


# **Configurations:**

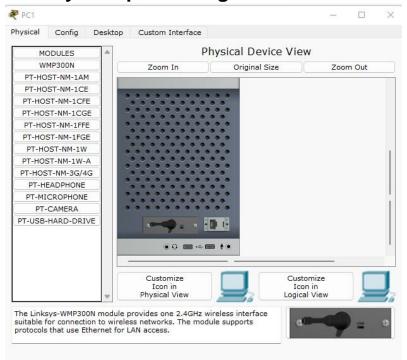
## **Access Point0:**



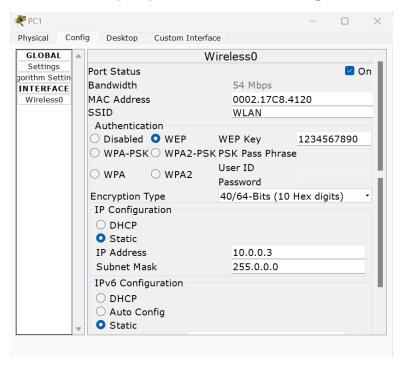
**Laptop0 Physical port change** 



## PC0 Physical port change:

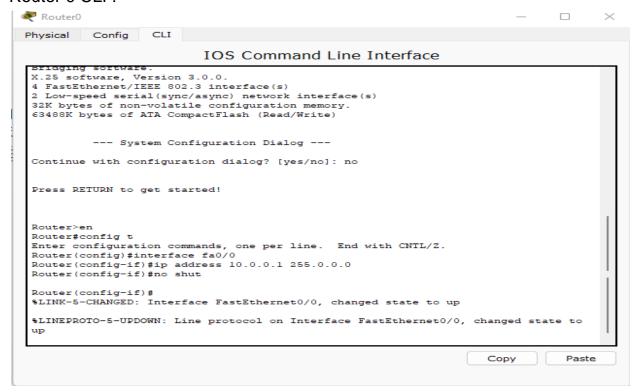


# PC0 and Laptop0 Wireless configuration:

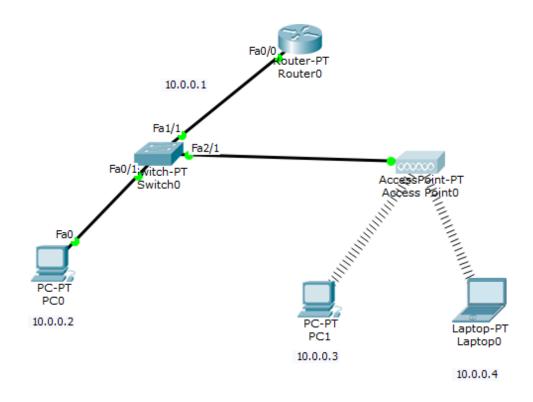


## **Router Configuration:**

#### Router 0 CLI:

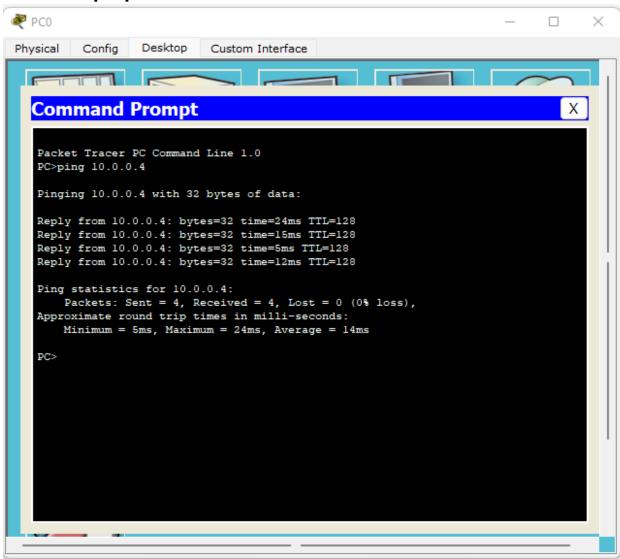


# **Final Topology:**

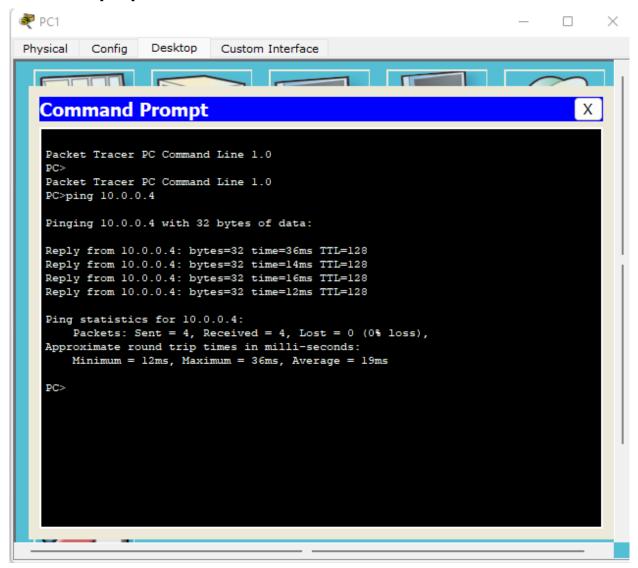


## **Ping Results:**

# PC0 to Laptop0:



## PC1 to Laptop0:



### Laptop0 to PC0:

