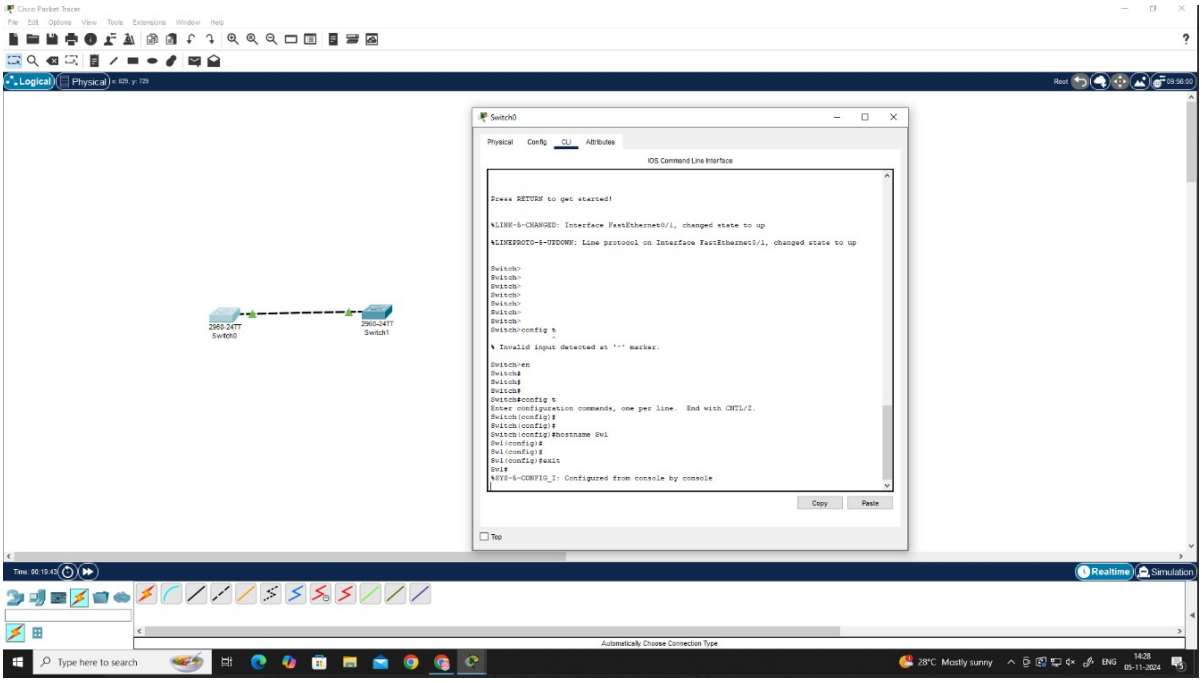
EXPERIMENT – 8

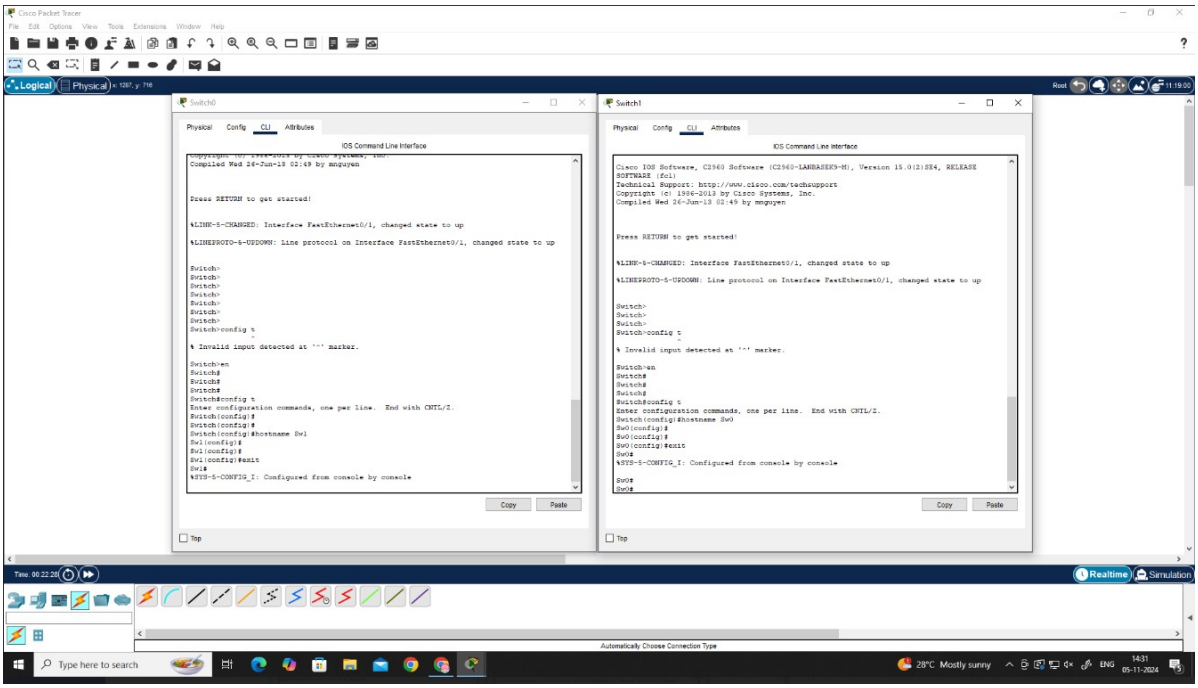
AIM: - a) Simulate Virtual LAN configuration using CISCO Packet Tracer Simulation.

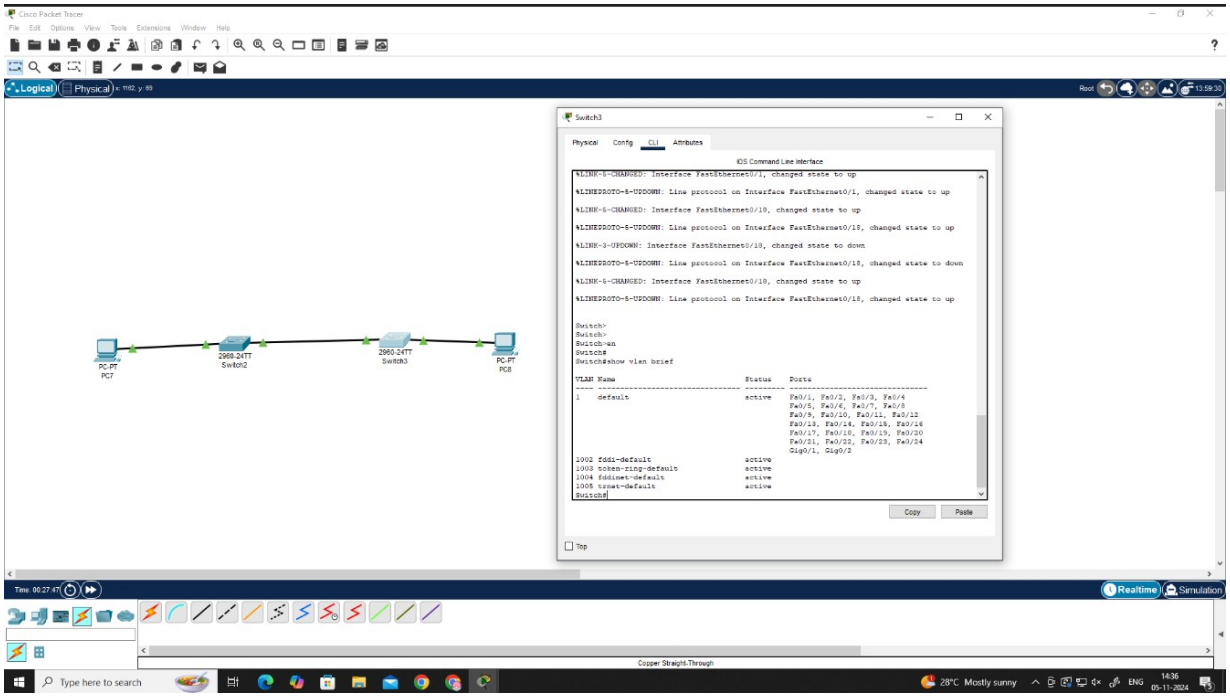
Steps:

Step 1: Build the network as shown in the topology.
Step 2: Configure basic settings for each switch.
Step 3: Configure PC hosts.
Step 4: Test connectivity.

OUTPUT: -







RESULT: -

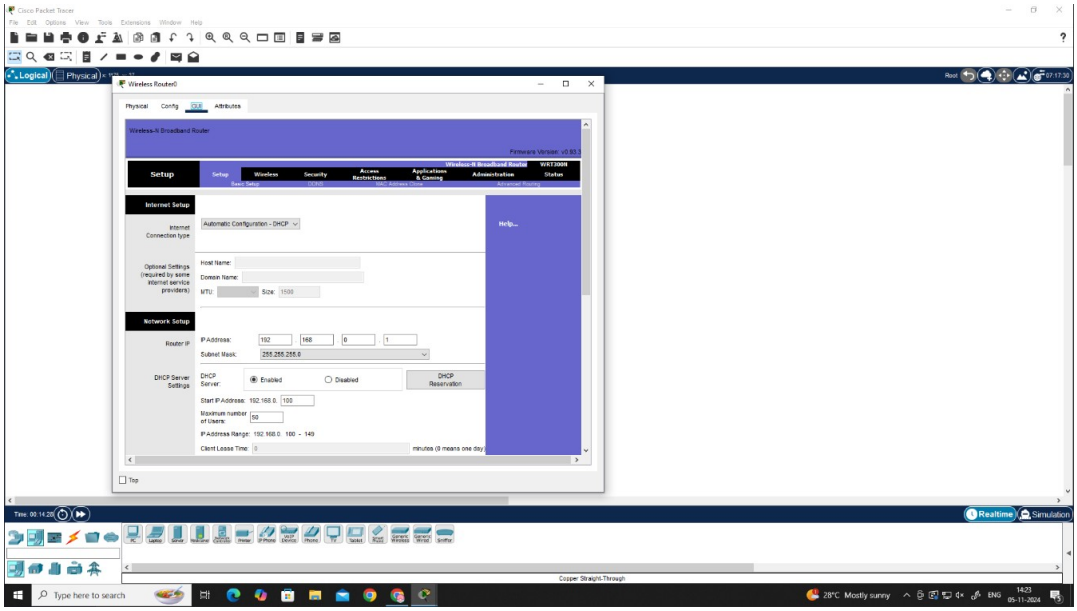
Simulation of virtual LAN configuration have been done successfully.

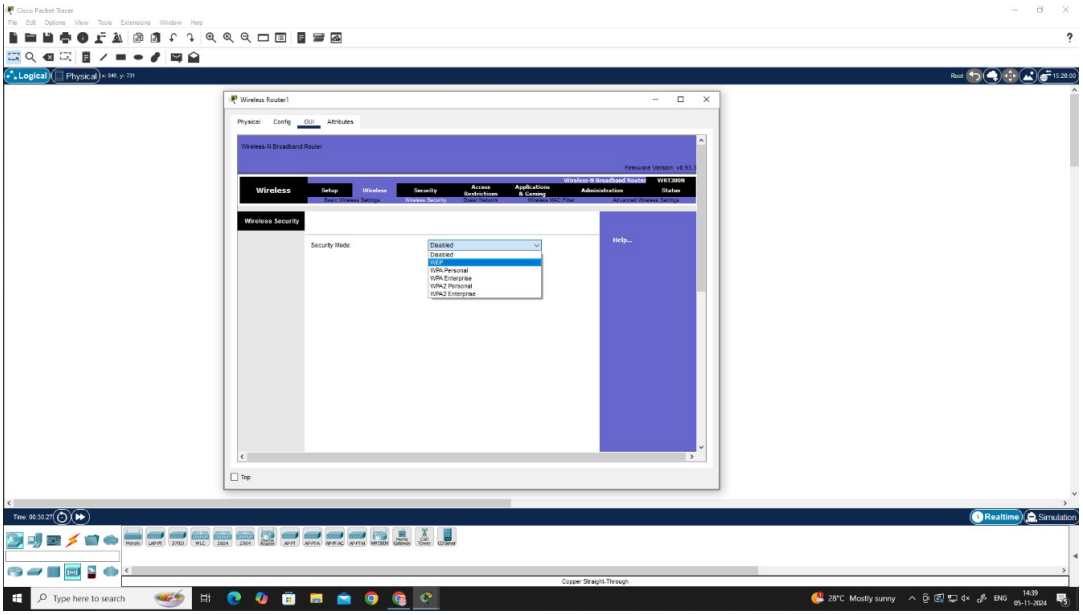
AIM: - b) Configuration of Wireless LAN using CISCO Packet Tracer.

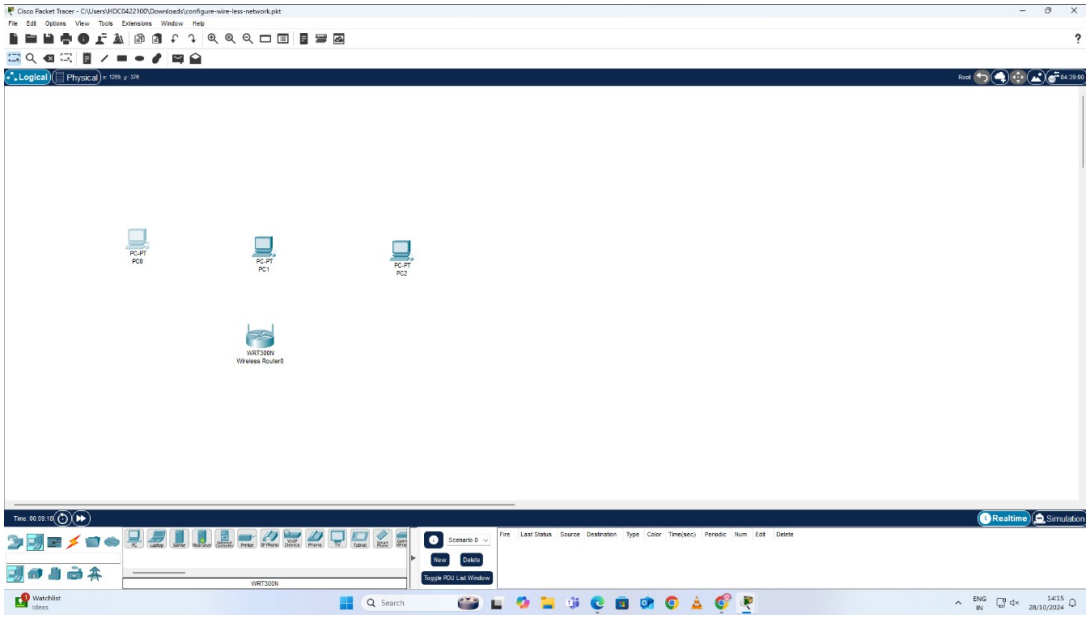
Steps:

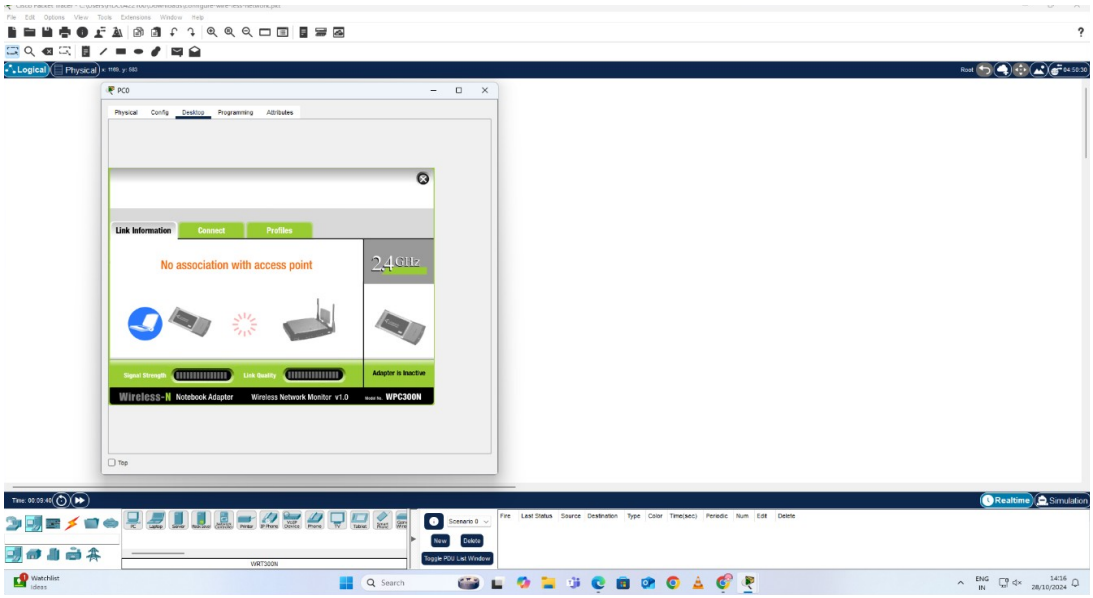
- Configure Static IP on PC and Wireless Router
- Set SSID to MotherNetwork
- Set IP address of router to 192.168.0.1, PC0 to 192.168.0.2, PC1 to 192.168.0.3 and PC2 to 192.168.0.4.
- Secure your network by configuring WAP key on Router
- Connect PC by using WAP key

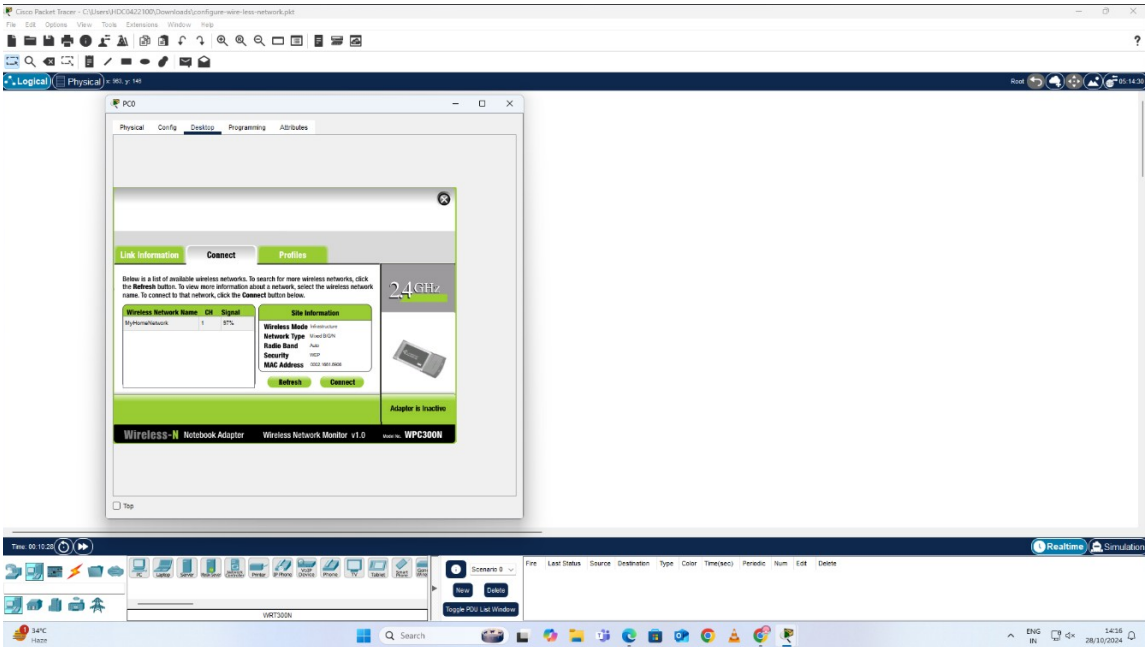
OUTPUT: -

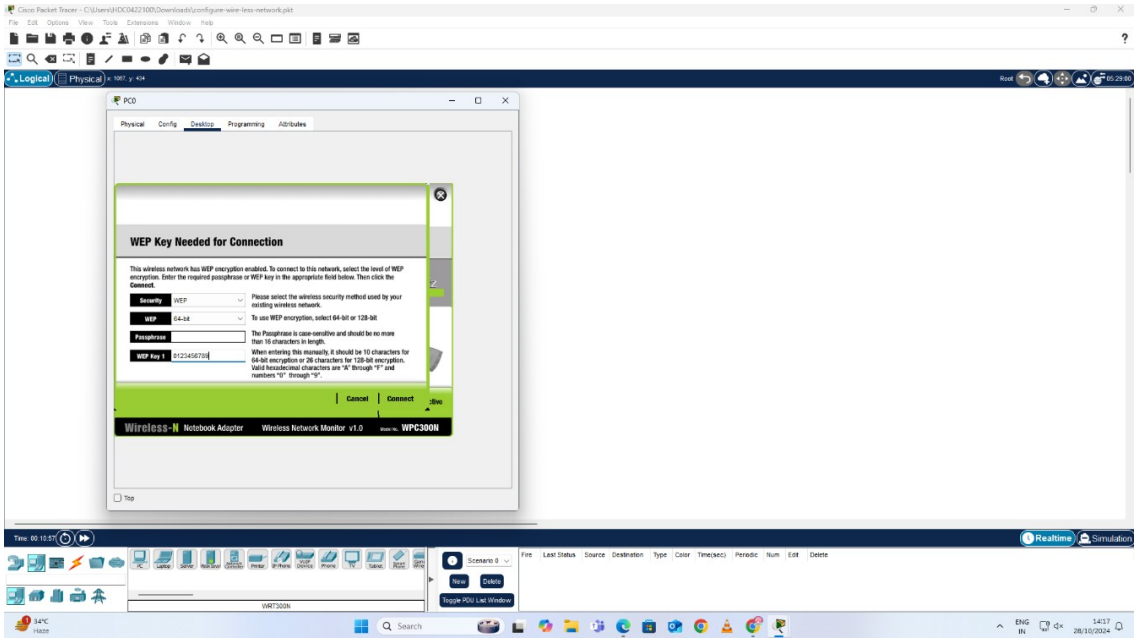


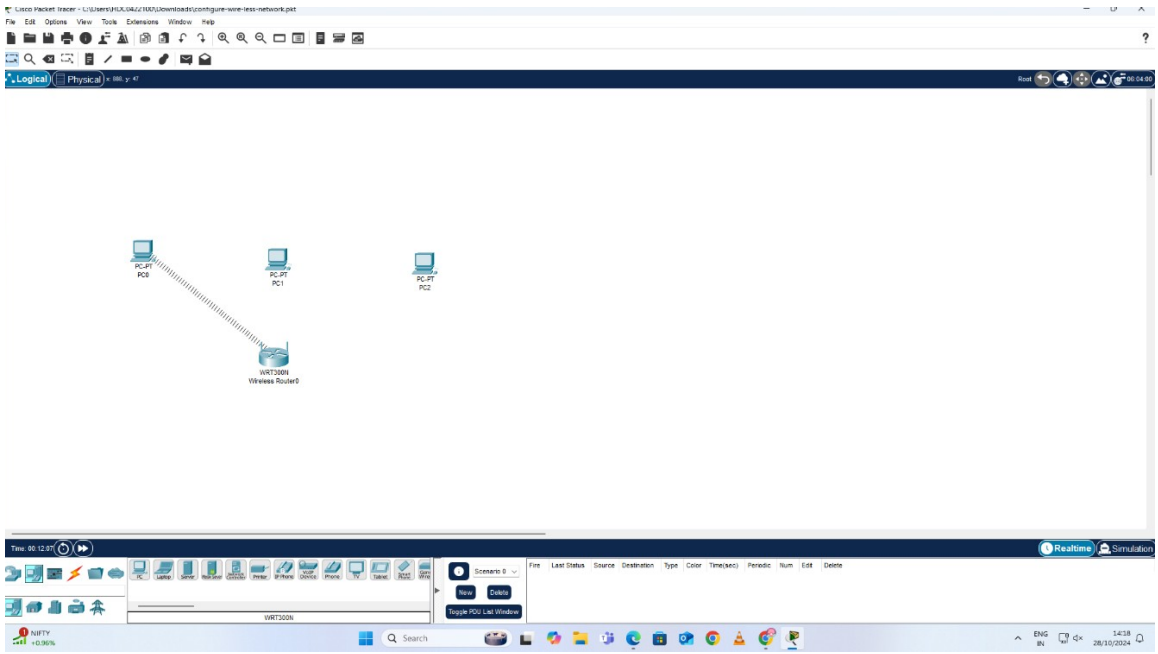


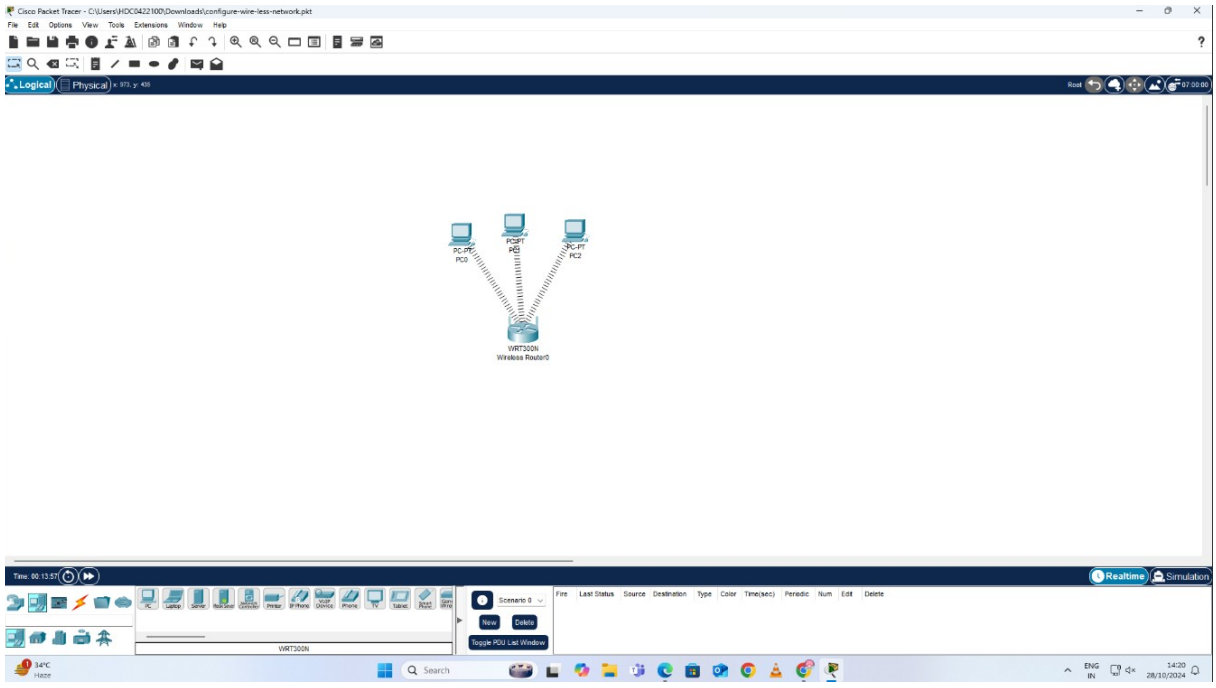

PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
WRT300N
Wireless Router0


PC0
Physical
Config
Desktop
Programming
Attributes
Link Information
Connect
Profiles
No association with access point
2.4GHz
Signal Strength
Link Quality
Adapter is Inactive
Wireless-N Notebook Adapter
Wireless Network Monitor v1.0
WPC300N


PC0
Physical
Config
Desktop
Programming
Attributes
Link Information
Connect
Profiles
Below is a list of available wireless networks. To search for more wireless networks, click the Refresh button. To view more information about a network, select the wireless network name. To connect to that network, click the Connect button below.
Wireless Network Name
CH
Signal
MyHomeNetwork
1
97%
Site Information
Wireless Mode
Network Type
Radio Band
Security
MAC Address
Refresh
Connect
2.4GHz
Adapter is Inactive
Wireless-N Notebook Adapter
Wireless Network Monitor v1.0
WPC300N


PC0
Physical
Config
Desktop
Programming
Attributes
WEP Key Needed for Connection
This wireless network has WEP encryption enabled. To connect to this network, select the level of WEP encryption. Enter the required passphrase or WEP key in the appropriate field below. Then click the Connect.
Security
WEP
64-bit
Passphrase
WEP Key 1
0123456789
Please select the wireless security method used by your existing wireless network.
To use WEP encryption, select 64-bit or 128-bit
The Passphrase is case-sensitive and should be no more than 16 characters in length.
When entering this manually, it should be 10 characters for 64-bit encryption or 26 characters for 128-bit encryption. Valid hexadecimal characters are "A" through "F" and numbers "0" through "9".
Cancel
Connect
Wireless-N Notebook Adapter
Wireless Network Monitor v1.0
WPC300N
Realtime
Simulation
WRT300N


PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
WRT300N
Wireless Router0
Realtime
Simulation
WRT300N


PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
WRT300N
Wireless Router0
Realtime
Simulation
WRT300N

RESULT: -

Configuration of Wireless LAN using CISCO Packet Tracer have been done successfully and verified.