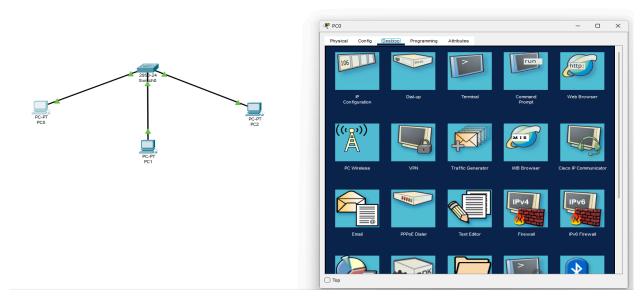
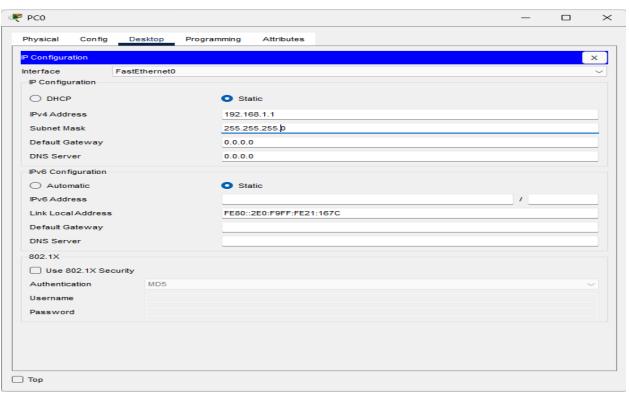
# To analyse the performance of various configuration and protocols in LAN

#### Assign IP to each machine:





## Ping to check connectivity:

```
Physical Config Desktop Programming Attributes

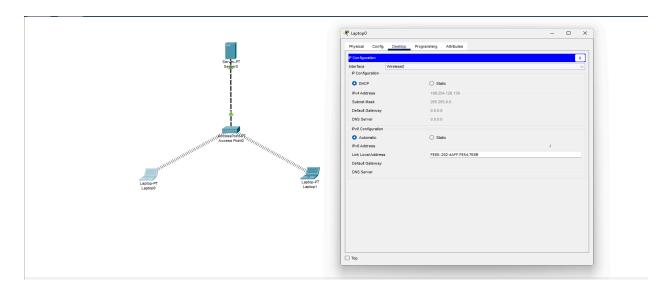
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<!ms TTL=128
Reply from 192.168.1.2: bytes=32 time<!ms TtL=1
```

## **Configuration of wireless LAN**

#### Wireless connection:



Ping to check wireless connectivity:

```
Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0

C:\>

ping 169.254.226.105

Pinging 169.254.226.105: bytes=32 time=36ms TTL=128

Reply from 169.254.226.105: bytes=32 time=21ms TTL=128

Reply from 169.254.226.105: bytes=32 time=21ms TTL=128

Reply from 169.254.226.105: bytes=32 time=1ms TTL=128

Reply from 169.254.226.105: bytes=32 time=1ms TTL=128

Ping statistics for 169.264.226.105:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate sound trip times in milli-seconds:

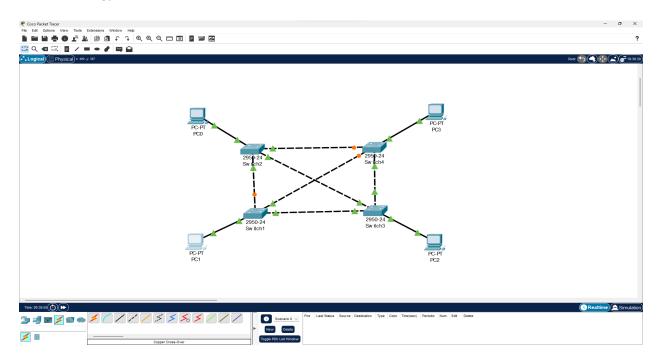
Minimum = 16ms, Maximum = 36ms, Average = 23ms

C:\>

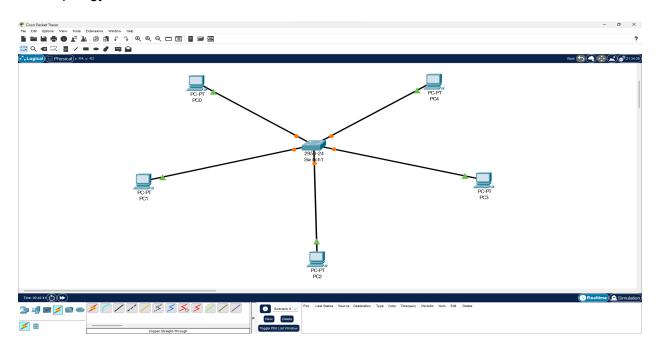
Top
```

# Study of different network topologies using Cisco Packet Tracer

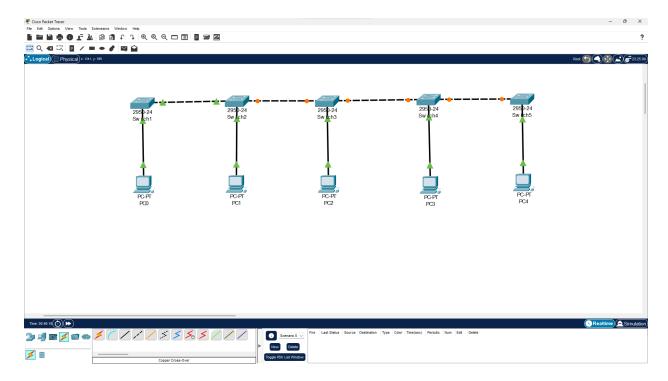
#### Mesh Topology:



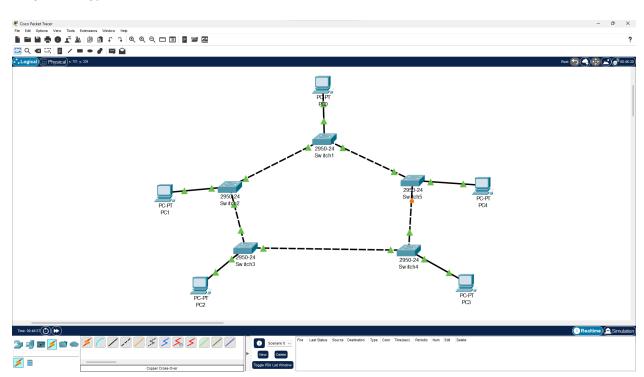
#### Star Topology:



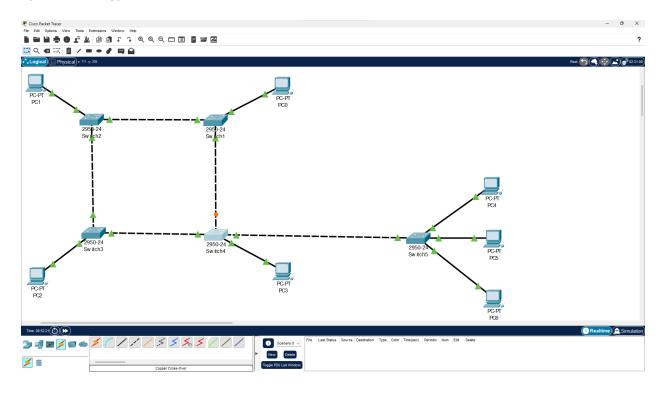
## Bus Topology:



#### Ring Topology:



## Hybrid Topology:

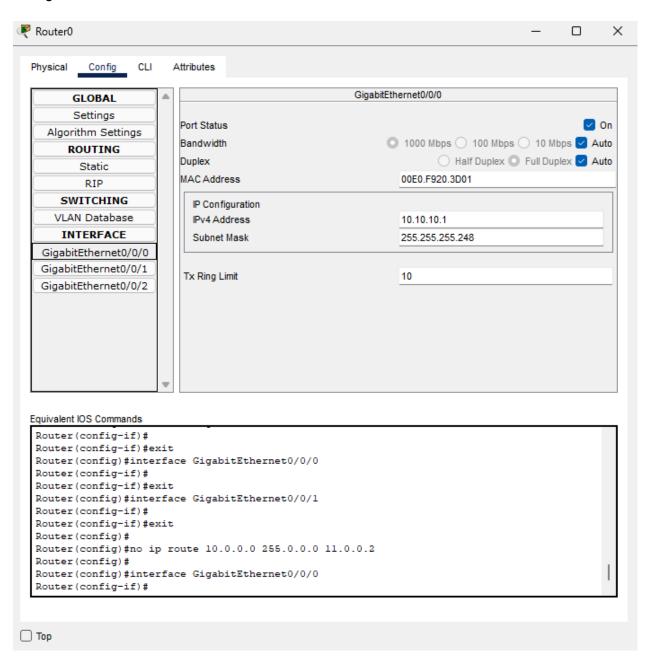


# **Static Routing**

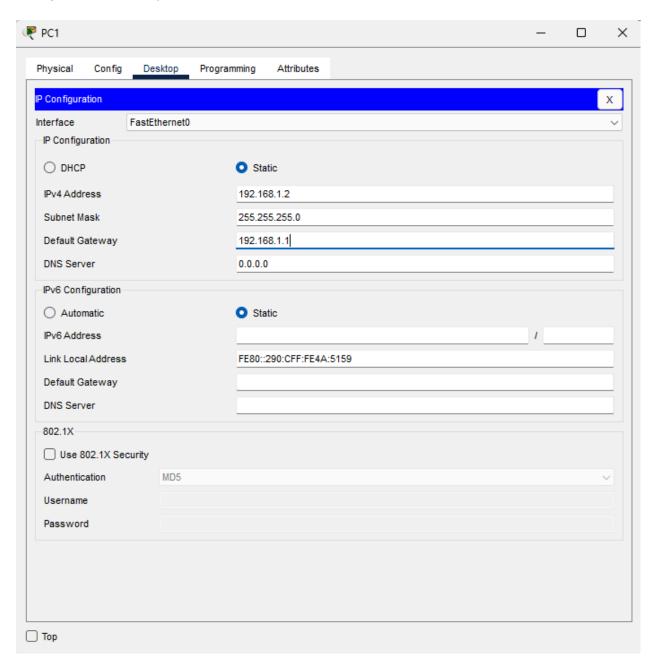
We connect two routers with two respective devices:



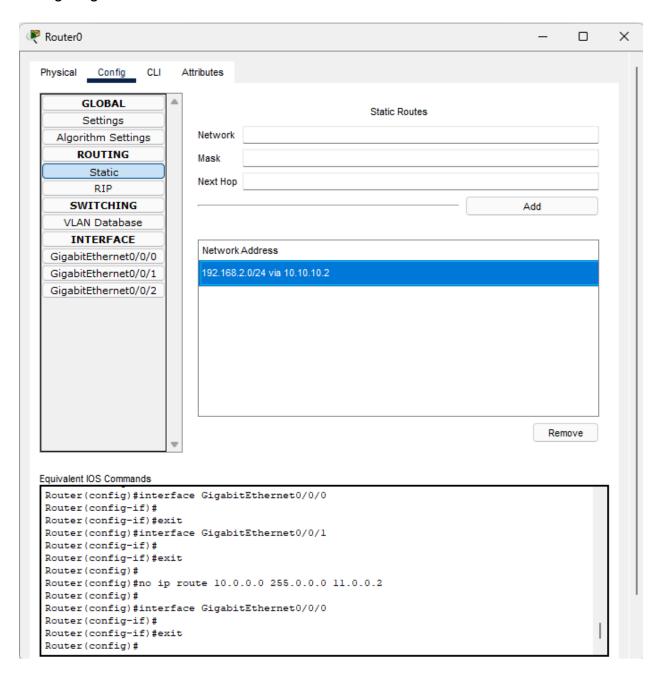
#### Configure IP address for the Routers:



## Configure the Gateway and IP of the PC:



## Configuring Routers for communication:



#### Ping from PC0 to PC1:

