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Course: MCA

Section: A

Roll no: 2001164

Subject: CN Practical.

Q1: Problem Statement: There is an organisation A with multiple departments. Design a Network for the the HR Department and the Size of the Department is 10 user Also shows the communication between user no 5 and user no. 1 of the Network.

Objective: Understanding of LAN Network.

Description: How to add connection between different computer and other devices in the same network.

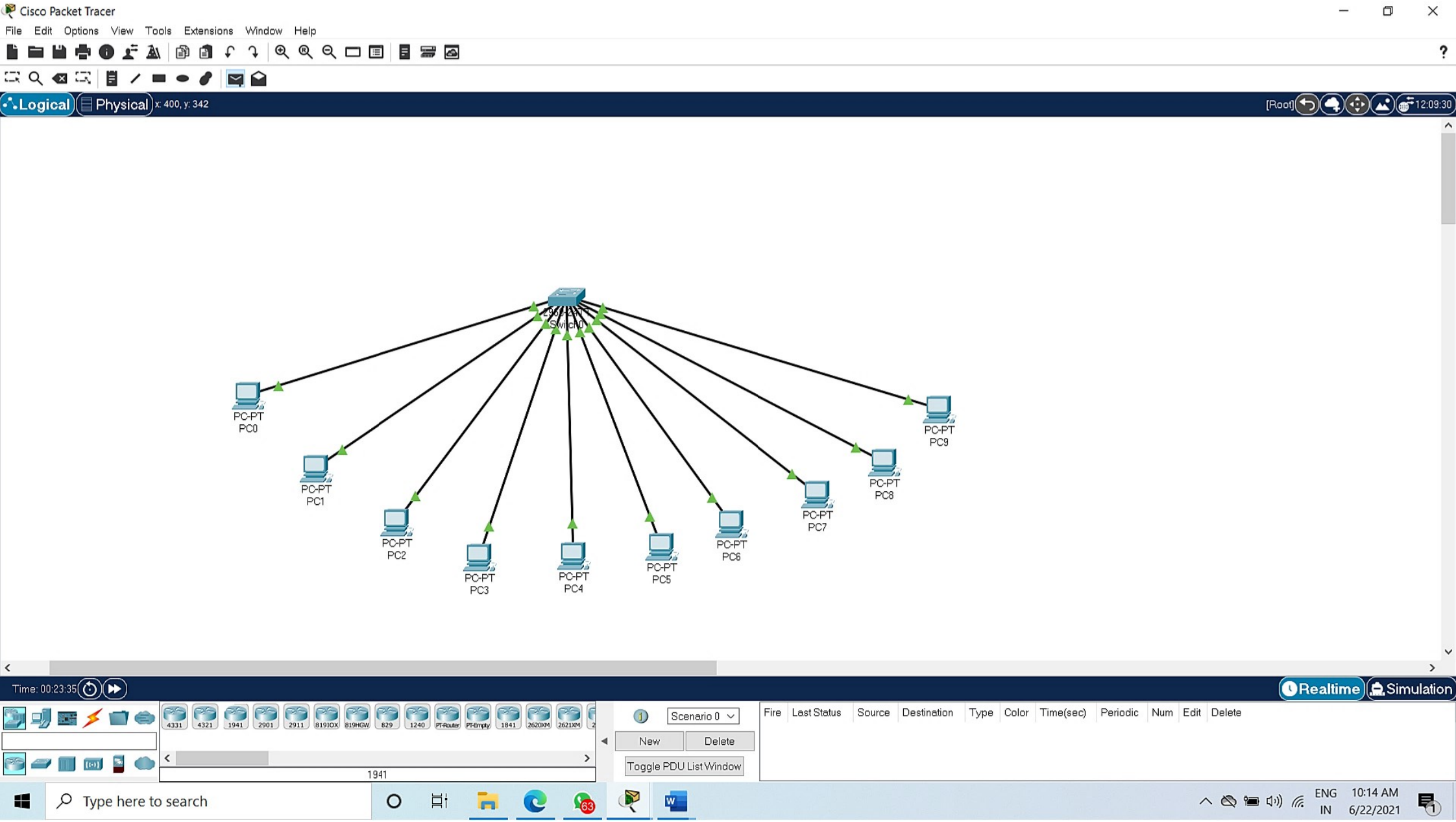
Switch: A Switch is a device in a comp. N/w that connects other devices together Multiple data cables are plugged into Switch to

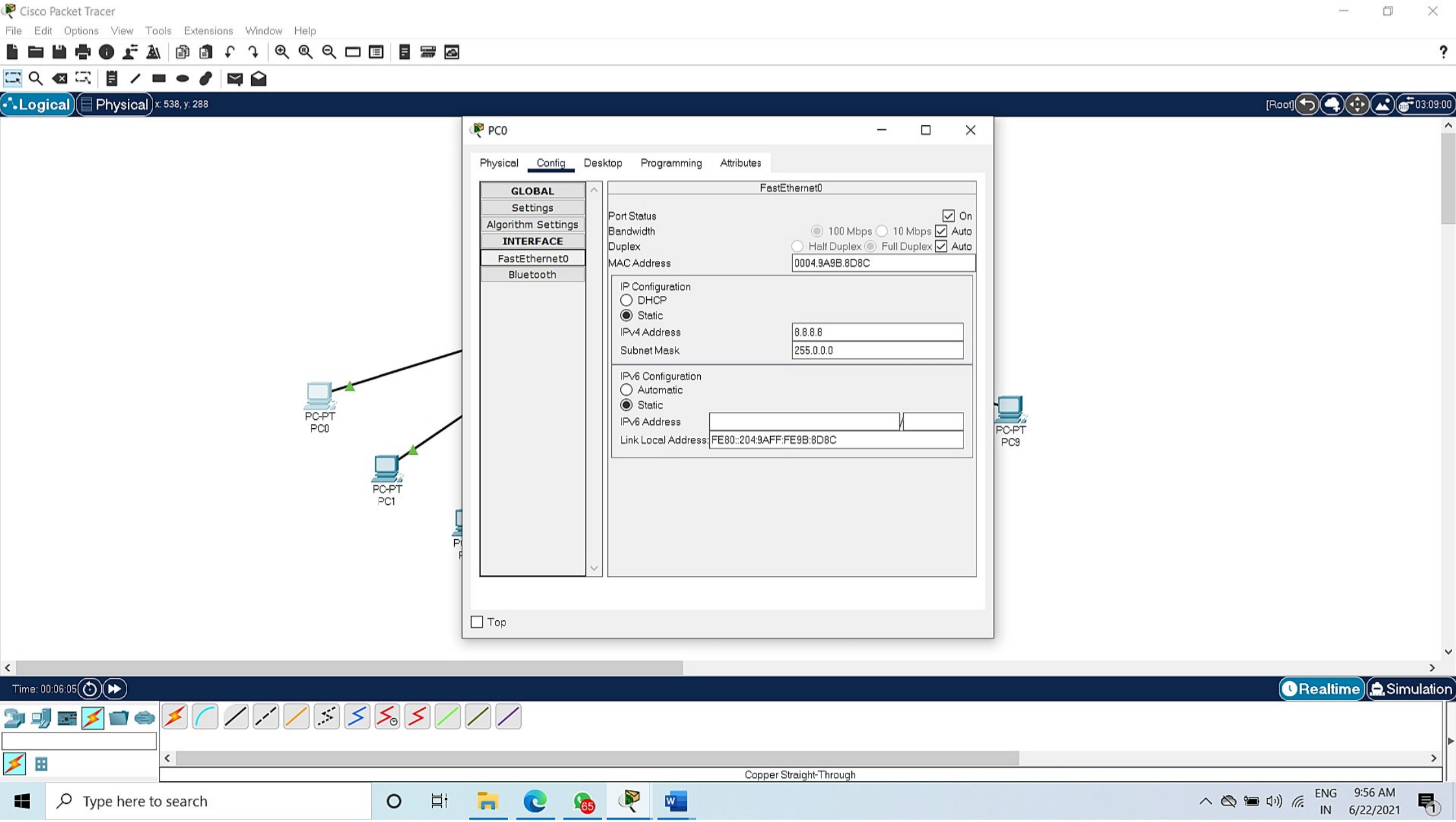
enable communication b/w diff. N/w devices.

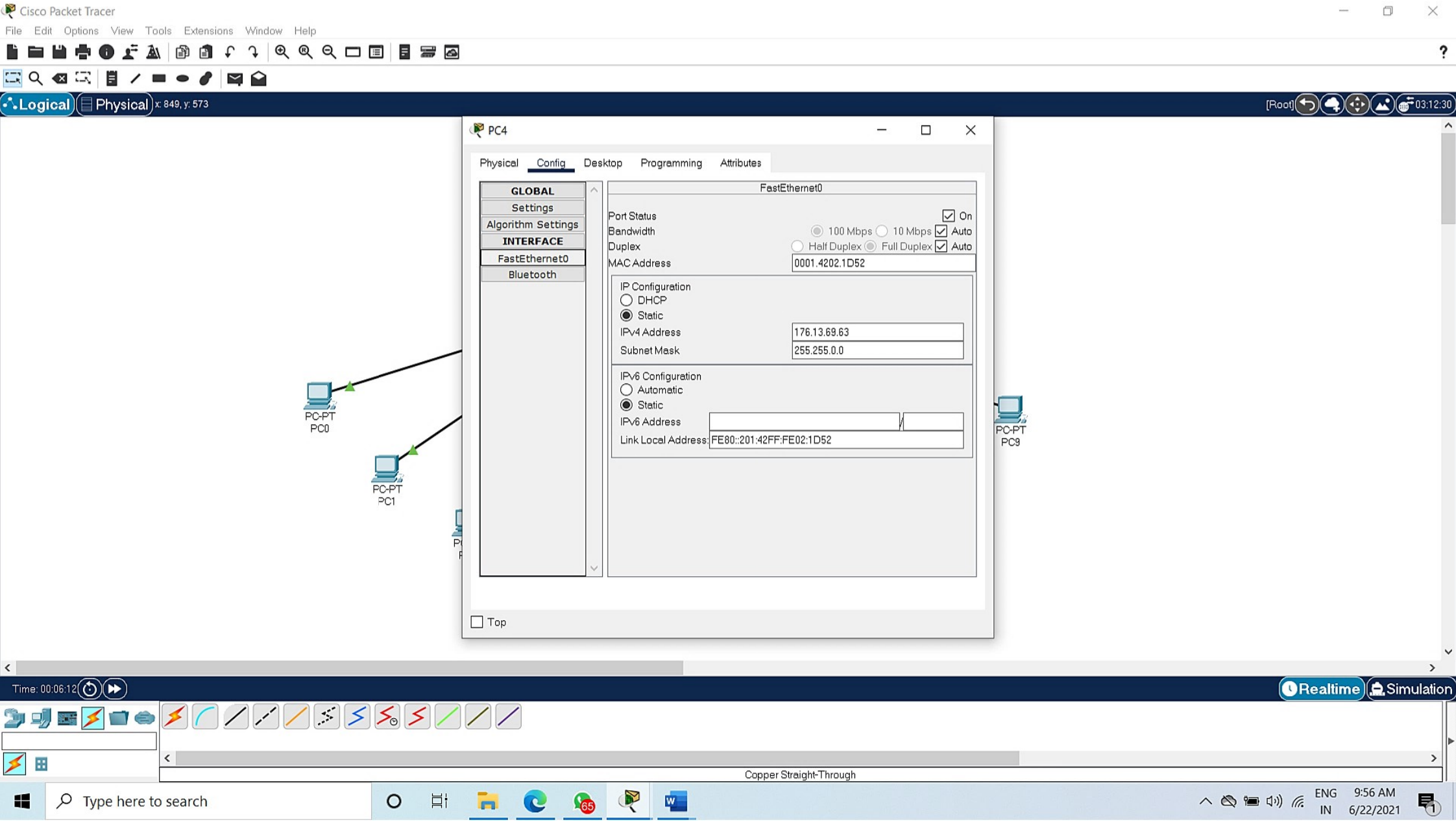
LAN - LAN is a local area Network that inter connect computer within a limited area such as residence, schools, etc.

Steps:

1. Create a N/w design using 10 pcs and 1 switch as a connection
2. Give IP to pcs by going to ip config option.
3. Using ping command in command prompt. Show the connection b/w pc0 and pc4,


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical x: 400, y: 342
[Root] 12:09:30
Switch0
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC6
PC-PT PC7
PC-PT PC8
PC-PT PC9
Time: 00:23:35
Realtime Simulation
4331 4321 1941 2901 2911 819IOX 819HGW 829 1240 PT-Router PT-Empty 1841 2620XM 2621XM
1941
Scenario 0
New Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete
Type here to search
ENG IN 10:14 AM 6/22/2021


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical x: 538, y: 288
[Root] 03:09:00
PC0
Physical Config Desktop Programming Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
FastEthernet0
Port Status On
Bandwidth 100 Mbps 10 Mbps Auto
Duplex Half Duplex Full Duplex Auto
MAC Address 0004.9A9B.8D8C
IP Configuration
DHCP
Static
IPv4 Address 8.8.8.8
Subnet Mask 255.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address: FE80::204:9AFF:FE9B:8D8C
Top
PC-PT PC0
PC-PT PC1
PC-PT PC9
Time: 00:06:05
Realtime Simulation
Copper Straight-Through
Type here to search
ENG IN 9:56 AM 6/22/2021


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical Physical x: 849, y: 573
[Root] 03:12:30
PC4
Physical Config Desktop Programming Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
FastEthernet0
Port Status On
Bandwidth 100 Mbps 10 Mbps Auto
Duplex Half Duplex Full Duplex Auto
MAC Address 0001.4202.1D52
IP Configuration
DHCP
Static
IPv4 Address 176.13.69.63
Subnet Mask 255.255.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address: FE80::201:42FF:FE02:1D52
Top
PC-PT PC0
PC-PT PC1
PC-PT PC9
Time: 00:06:12
Realtime Simulation
Copper Straight-Through
Type here to search
ENG IN 9:56 AM 6/22/2021