NAME-KIRAN DOBHAL UNIVERSITY ROLL NO: 20712017

COURSE & SECTION: MCA 2B

Name :- Kiran Dobhal
Course :- MCA
Section :- B
University Roll No :- 20712017
Subject Name :- Computer Networks
Subject code :- PMC - 203

1) Problem Statement :- There is an Organisation A with multiple department. . . . . .

objective :- To understand how to create a wired lan using switch.

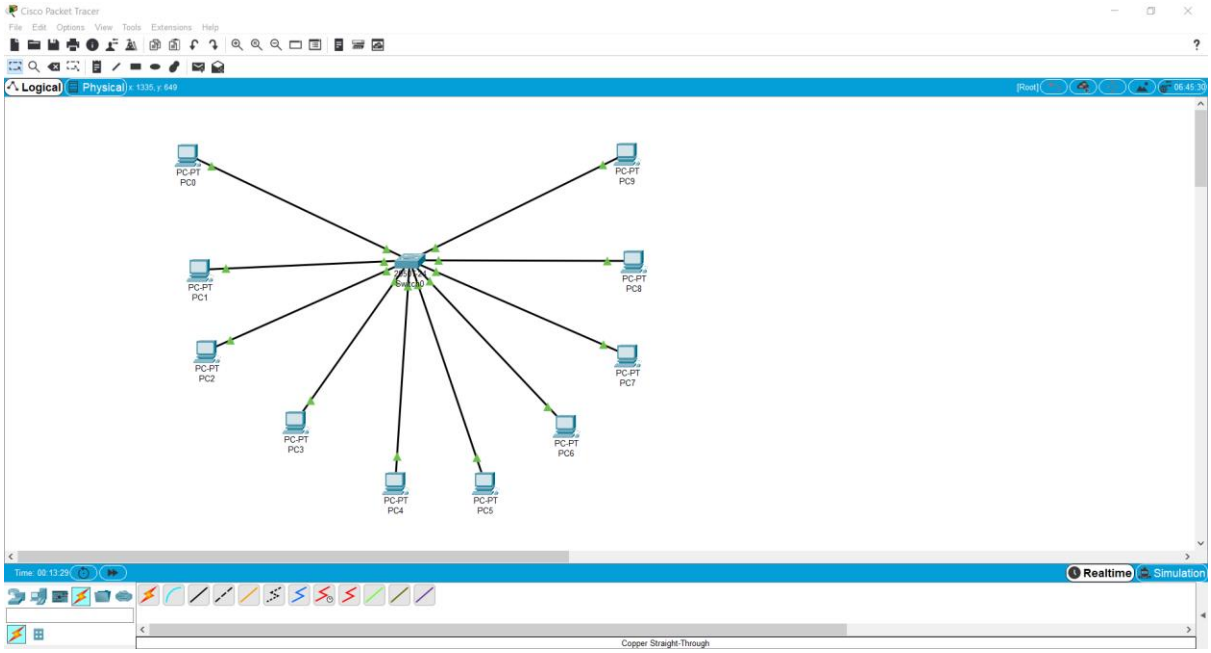
step 1 :-) Go to End devices, which is located at left bottom and drag and drop 10 pcs to working area and one switch because the switch will help to establish LAN connection b/w 10 Pcs.
Then select copper straight Through & join all pc with this wire and after that give Pc's different fast Ethernet connection

step 2 :-) In step 2 we will give all 4 pc IP address and subnet Mask by Manually

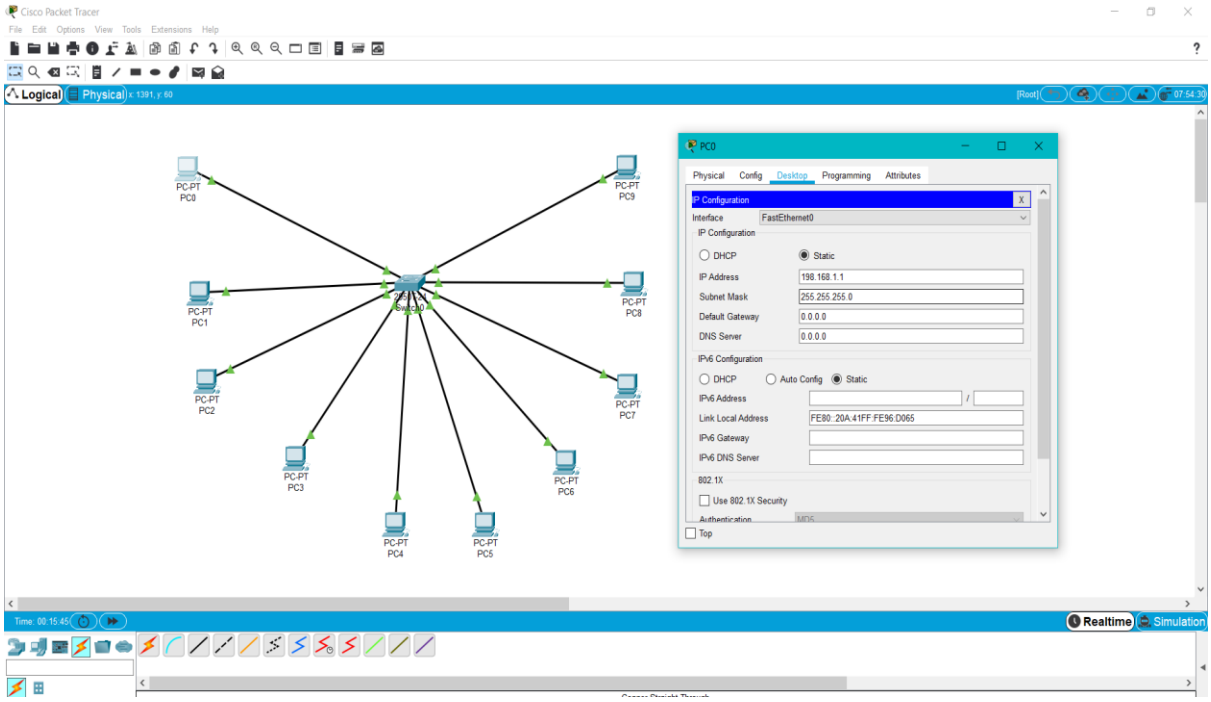
step 3 :-) After the connection, we have to test the connection by using ping command for 1st and 5th pc in the network.

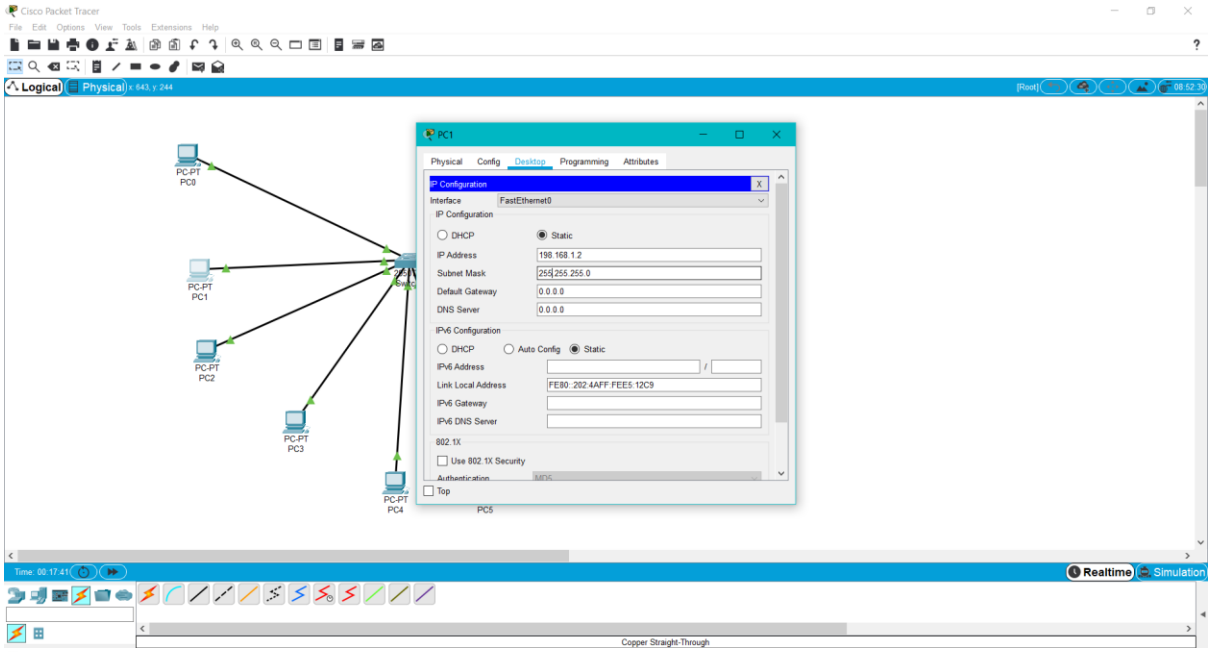
Kiran

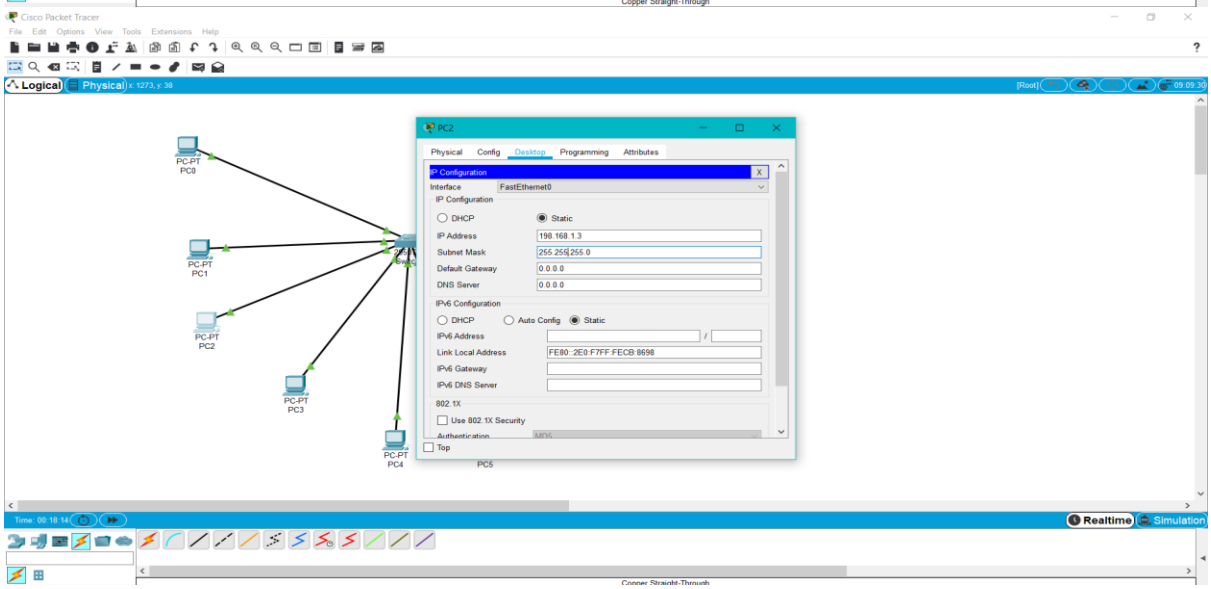
STEP 1: ESTABLISHING THE CONNECTION

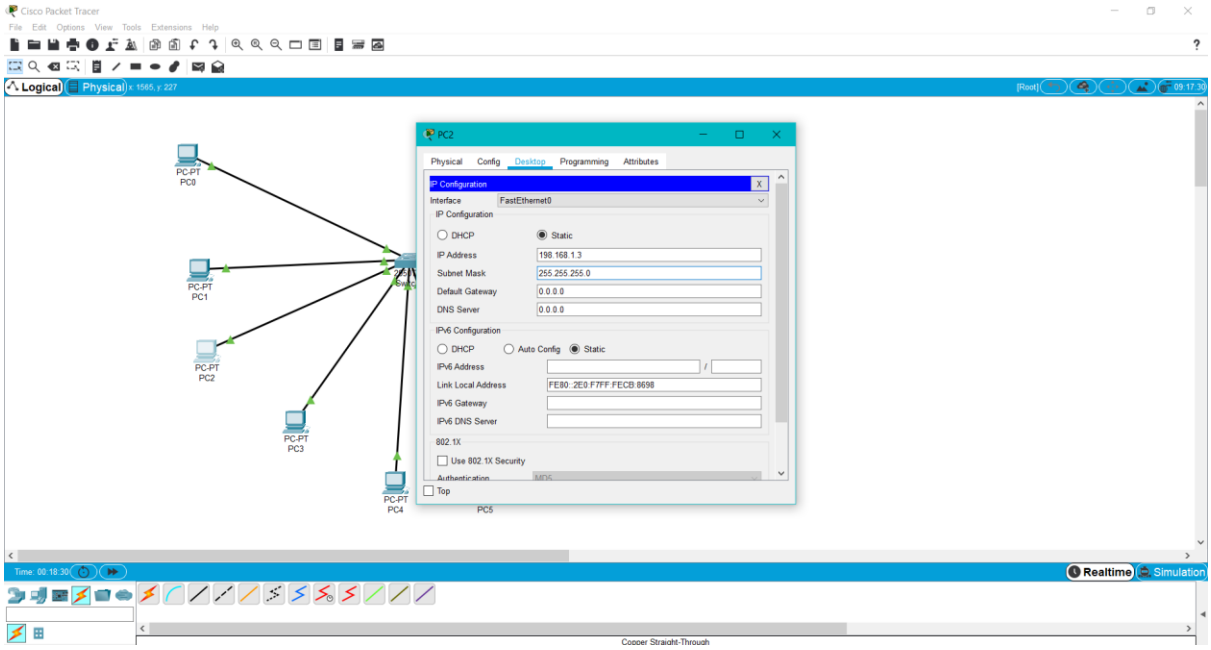


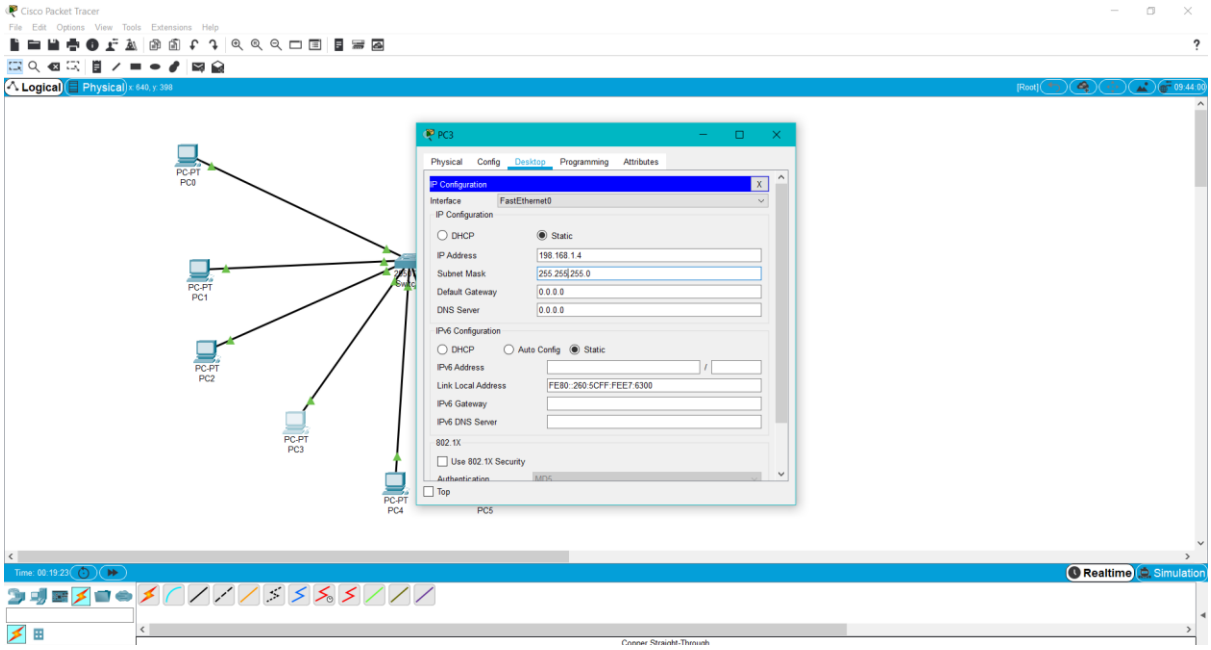
STEP 2: CONFIGURING Ips of the PCs

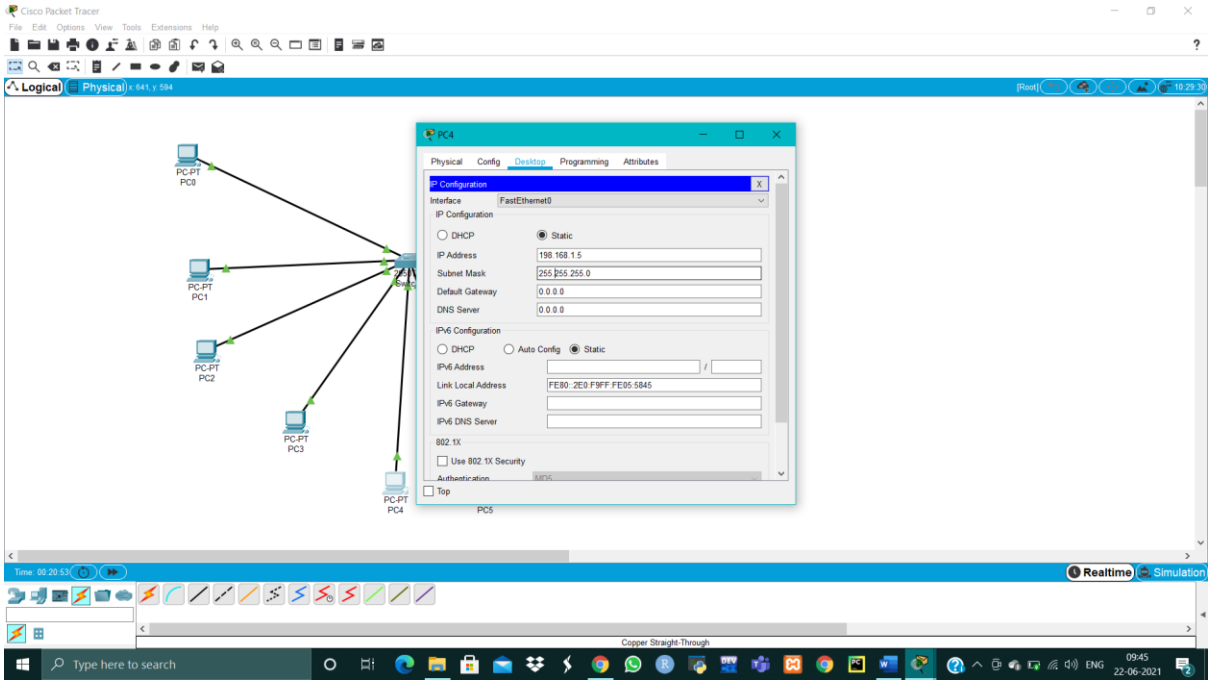



Cisco Packet Tracer
Logical
Physical
PC1
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
DHCP
Static
IP Address
198.168.1.2
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::202:4AFF:FEE5:12C9
IPv6 Gateway
IPv6 DNS Server
802.1X
Use 802.1X Security
Top
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC5
Realtime
Simulation
Copper Straight-Through

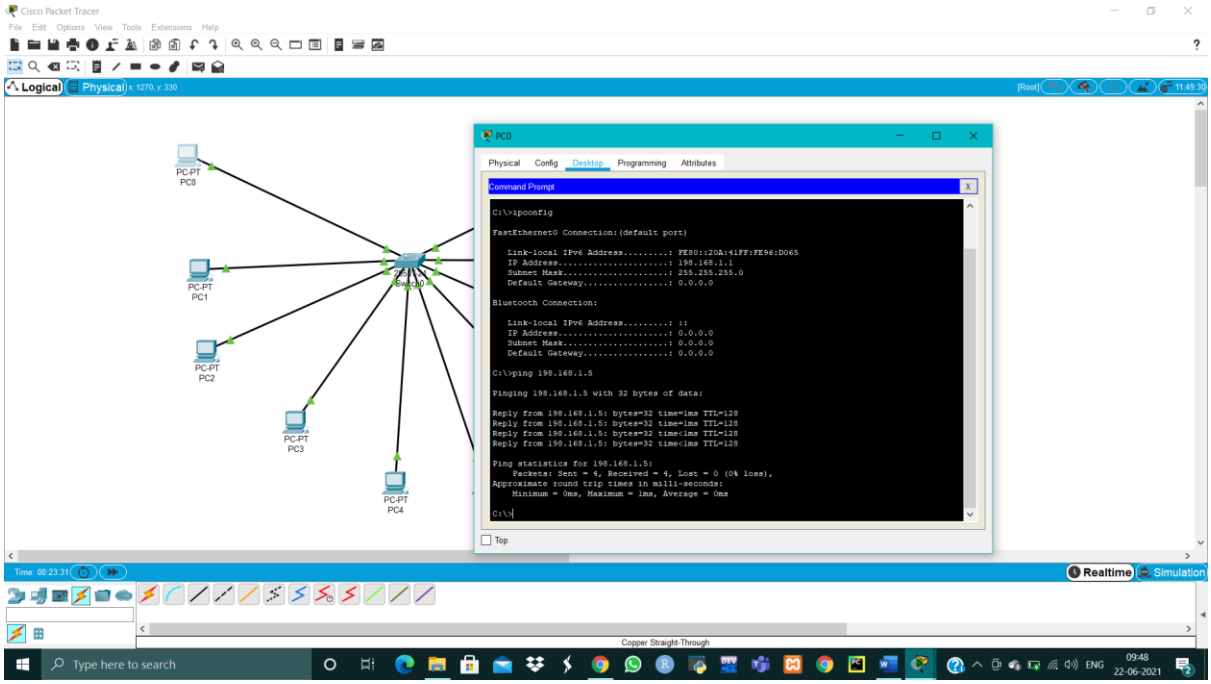

Cisco Packet Tracer
Logical
Physical
PC2
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
DHCP
Static
IP Address
198.168.1.3
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::2E0:F7FF:FECB:8698
IPv6 Gateway
IPv6 DNS Server
802.1X
Use 802.1X Security
Top
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC5
Realtime
Simulation

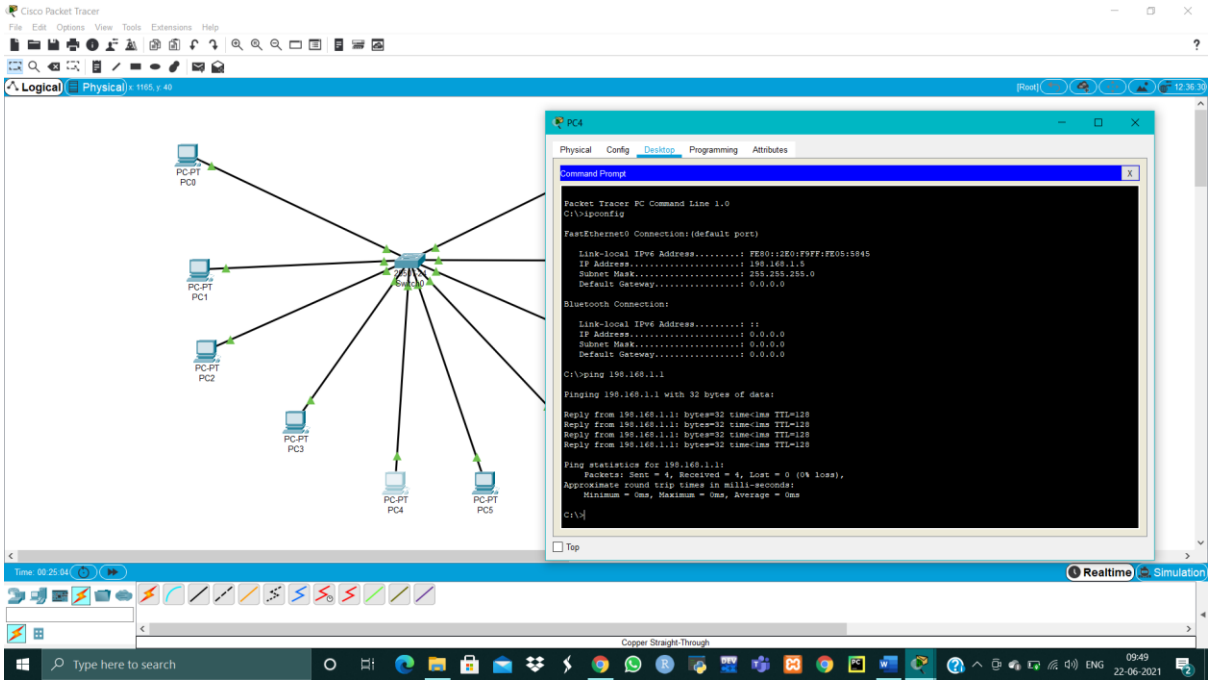

Cisco Packet Tracer
Logical
Physical
PC2
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
DHCP
Static
IP Address
198.168.1.3
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::2E0:F7FF:FECB:8698
IPv6 Gateway
IPv6 DNS Server
802.1X
Use 802.1X Security
Top
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC5
Realtime
Simulation
Copper Straight-Through


Cisco Packet Tracer
Logical
Physical
PC3
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
DHCP
Static
IP Address
198.168.1.4
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::260:5CFF:FEE7:6300
IPv6 Gateway
IPv6 DNS Server
802.1X
Use 802.1X Security
Top
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC5
Realtime
Simulation
Copper Straight-Through



STEP 3: CHECKING CONNECTIVITY BETWEEN PCs




Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Physical
PC4
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Link-local IPv6 Address.....: FE80::2E0:F9FF:FE05:5845
IP Address.....: 198.168.1.5
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 0.0.0.0
Bluetooth Connection:
Link-local IPv6 Address.....: ::
IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
C:\>ping 198.168.1.1
Pinging 198.168.1.1 with 32 bytes of data:
Reply from 198.168.1.1: bytes=32 time<1ms TTL=128
Reply from 198.168.1.1: bytes=32 time<1ms TTL=128
Reply from 198.168.1.1: bytes=32 time<1ms TTL=128
Reply from 198.168.1.1: bytes=32 time<1ms TTL=128
Ping statistics for 198.168.1.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Top
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
Realtime
Simulation
Copper Straight-Through
Type here to search
ENG
09:49
22-06-2021