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Course - MCA 'B'  
Sem - 2<sup>nd</sup>  
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Sub- Computer Network  
practical

Problem Statement : There is an organisation  
and user no. 5 of the network.

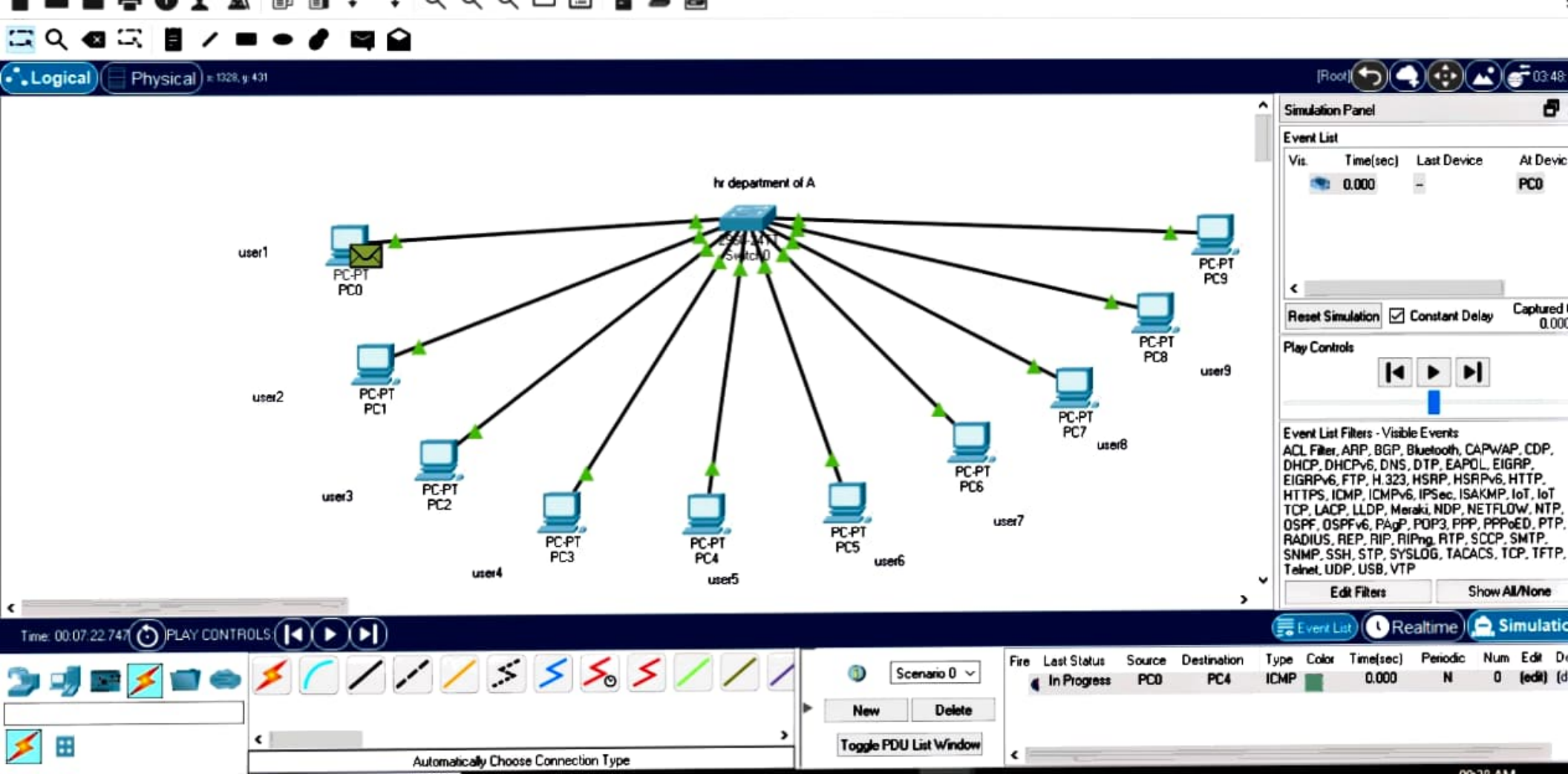
Objective - To understand how to create a  
wired LAN using Packet Tracer and how  
to show connection of one node to  
another.

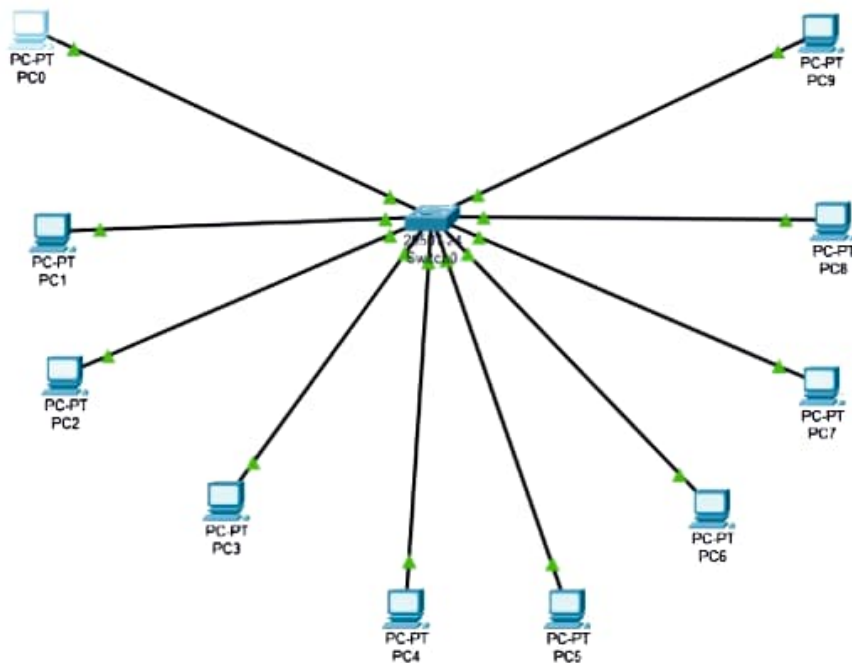
Step 1 : Network Design

Step 2 : IP Configuration

Step 3 : Connectivity checking of 1 to 5.

By checking connection using ping  
Command.





PC0

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 198.168.1.1

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: FE80:20A:41FF:FE96:D065

IPv6 Gateway:

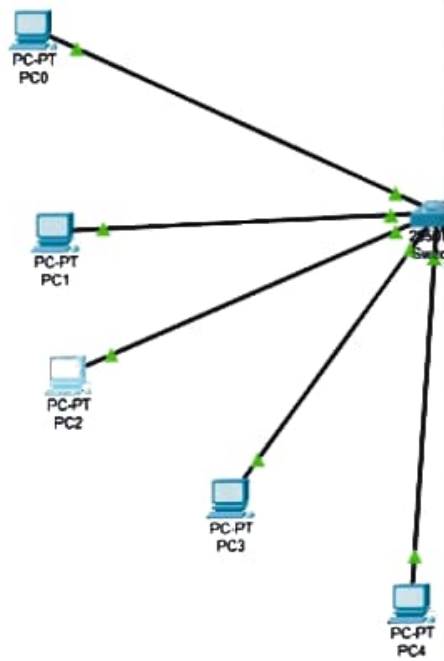
IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

☐ Top



PC2

Physical Config Desktop Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ 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:FECD:8698

IPv6 Gateway

IPv6 DNS Server

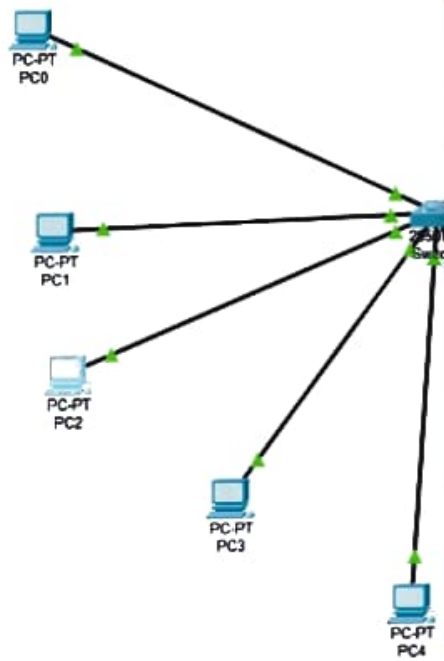
802.1X

☐ Use 802.1X Security

Authentication MD5

☐ Top

PC5



PC2

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ 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:FECD:8698

IPv6 Gateway:

IPv6 DNS Server:

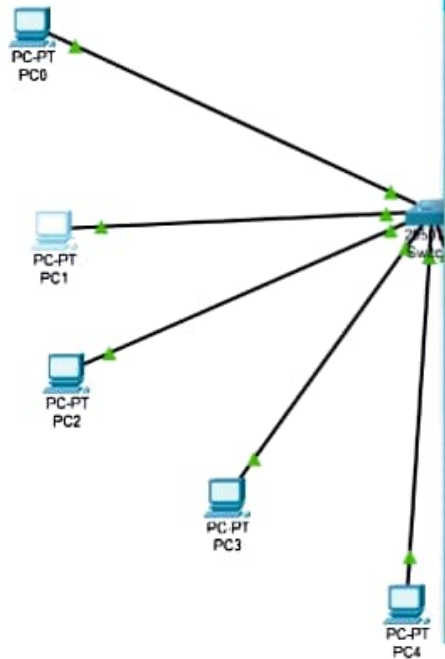
802.1X

☐ Use 802.1X Security

Authentication: MD5

☐ Top

PC5



PC1

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ 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

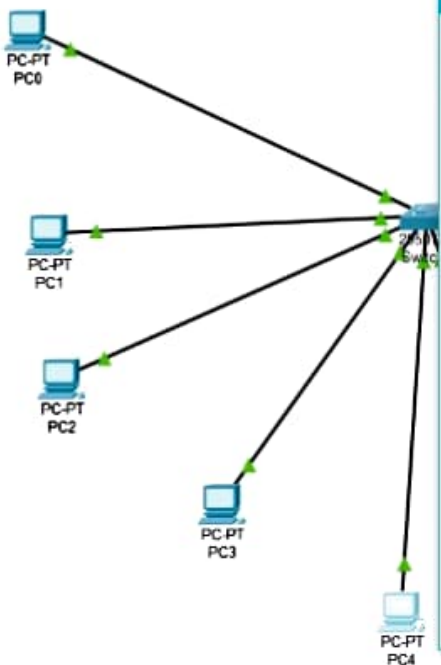
802.1X

☐ Use 802.1X Security

Authentication

☐ Top

PC5



PC4

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP
 ☒ Static

IP Address 198.168.1.5

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:F9FF:FE05:5845

IPv6 Gateway

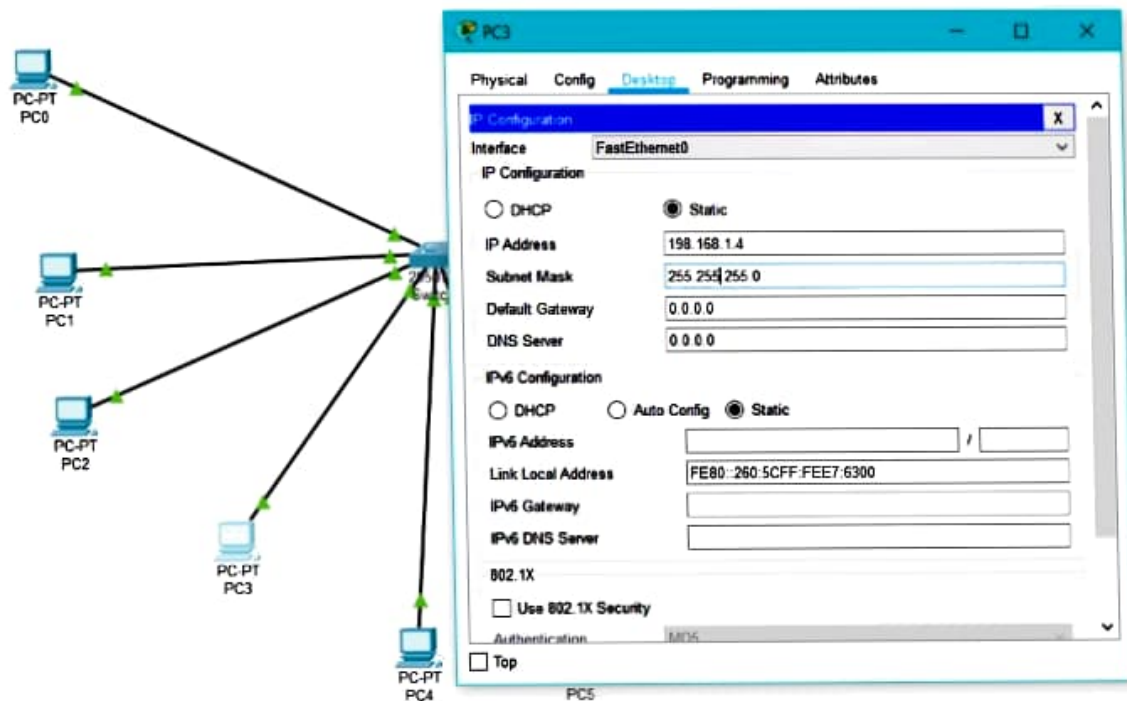
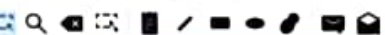
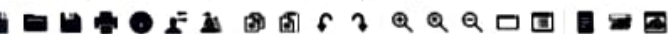
IPv6 DNS Server

802.1X

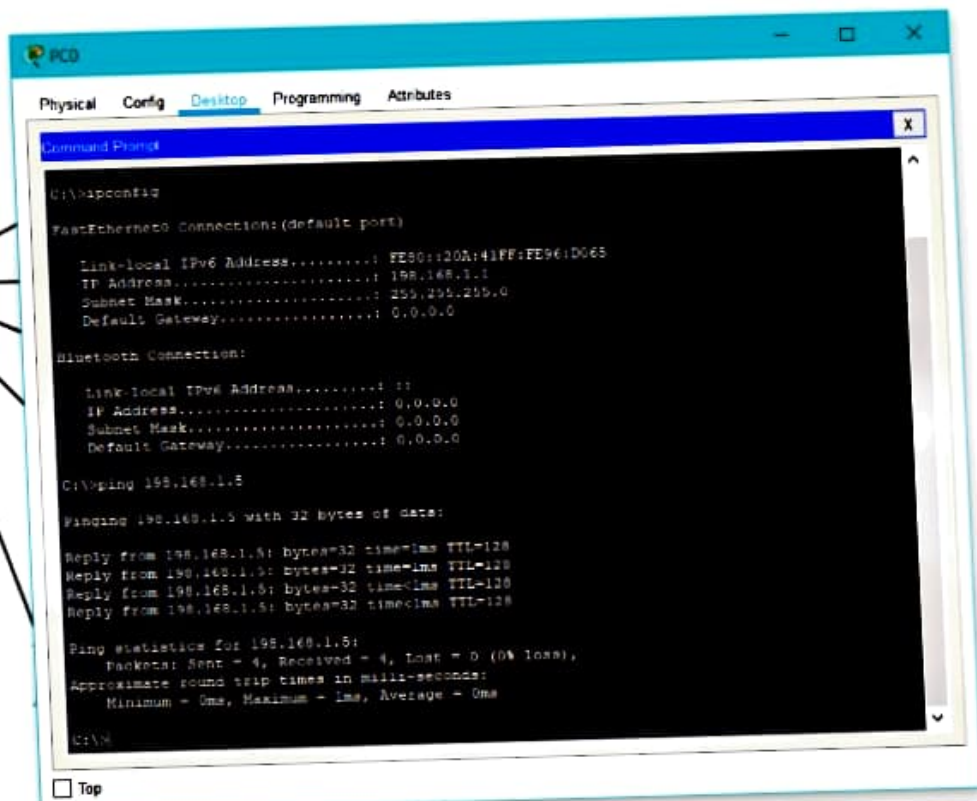
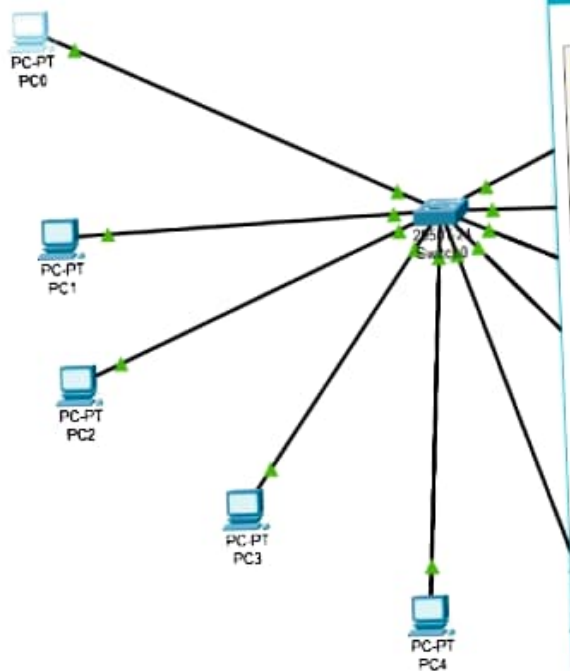
☐ Use 802.1X Security

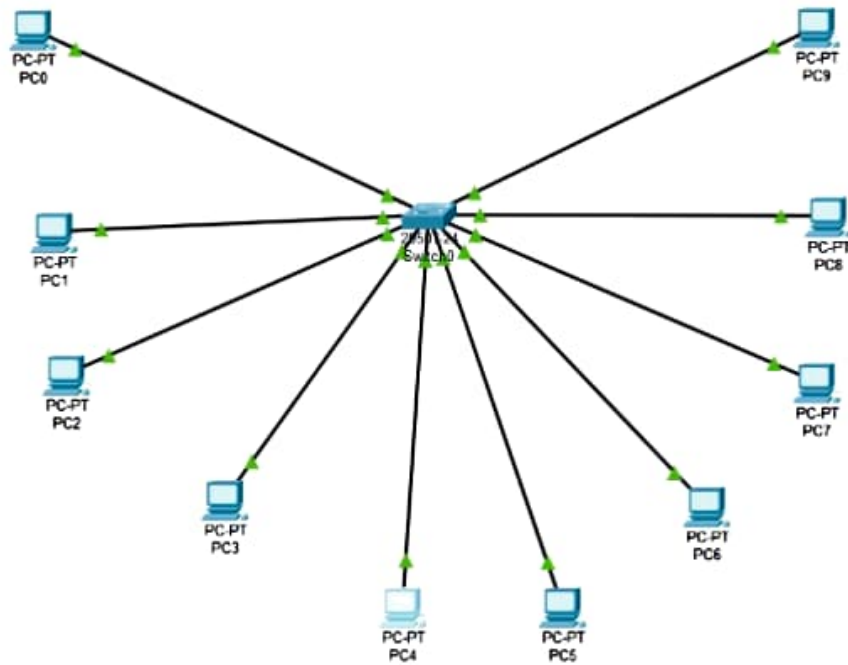
Authentication

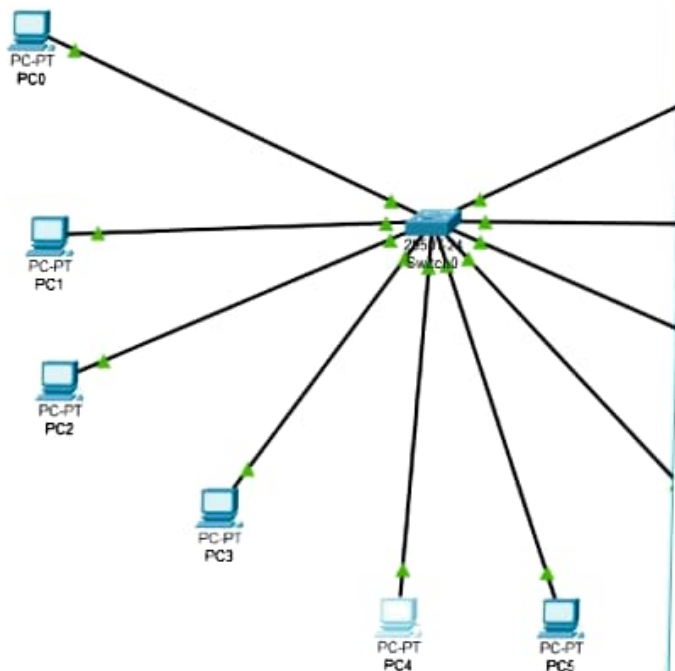
Top











PC4

Physical Config Desktop Programming Attributes

Command Prompt

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Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection: (default port)

    Link-local IPv6 Address . . . . . : FE80::2E0:F5FF: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 milliseconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
    
```

☐ Top