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Course - MCA B
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Problem statement - Design a network in which 10 Pcs are arranged using star topology and show the communication among pcs

Objective - To understand how to create a wired LAN using packet tracer tool and how to show connection of one node made to another.

Step 1 - Network design
Step 2 - Ip configuration
Step 3 - Connectivity checking of pc 1 to 5 by using ping command

Logical   Physical   x: 470, y: 54   [Root]   04:39:00

PC1

Physical   Config   **Desktop**   Programming   Attributes

○ DHCP   ● Static

IP Address   192.168.1.1

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::201:96FF:FE73:DC84

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5

Username

☐ Top

Time: 00:09:50   Realtime   Simulation

Copper Straight-Through

Logical　Physical　x: 1118, y: 13　05:03:00

PC2

Physical　Config　Desktop　Programming　Attributes

○ DHCP　　　　　　　● Static

IP Address	192.168.1.2
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::201:C7FF:FE72:606E
IPv6 Gateway	
IPv6 DNS Server	

802.1X

☐ Use 802.1X Security

| Authentication | MD5 |
| Username | |

☐ Top

Time: 00:10:38　　　Realtime　Simulation

Copper Straight-Through

Logical   Physical   x: 259, y: 226

PC3

Physical   Config   **Desktop**   Programming   Attributes

○ DHCP   ● Static

IP Address   192.168.1.3

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::201:C9FF:FEAD:583D

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5

Username

☐ Top

Time: 00:11:39

Realtime   Simulation

Copper Straight-Through

Logical | Physical x: 619, y: 376

PC5

Physical Config Desktop Programming Attributes

○ DHCP   ● Static

IP Address   192.168.1.5

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:F7FF:FE57:6D3C

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5

Username

☐ Top

PC-PT
PC2

PC-PT
PC3

Time: 00:26:50 ○ ▶▶   🕐 Realtime ⚡ Simulation

Copper Straight-Through

PC1

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
C:\>clear
Invalid Command.

C:\>clear screen
Invalid Command.

C:\>clear
Invalid Command.

C:\>clear
Invalid Command.

C:\>ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes=32 time=1ms TTL=128
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=7ms TTL=128
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 7ms, Average = 2ms

C:\>
```

Top

PC-PT
PC2

PC-PT
PC3

[Root]   13:38:30

Time: 00:25:33   Realtime   Simulation

Copper Straight-Through