NAME- AAKANKSHA BARTHWAL   COURSE- MCA

UNIVERSITY ROLLNO- 20712043   SECTION- B

SUBJECT NAME- CN LAB   SUBJECT CODE- TMC-203

Question1 Solution!-

Problem Statement:-

There is an organization A with multiple departments. Design a network for the HR department and the size of the department is 10 users Also show the Communication between user 1 and user number 5 of the network.

Objective!-

TO understand how to Create a network and Communicate two PC's using Switch Packet Tracer.
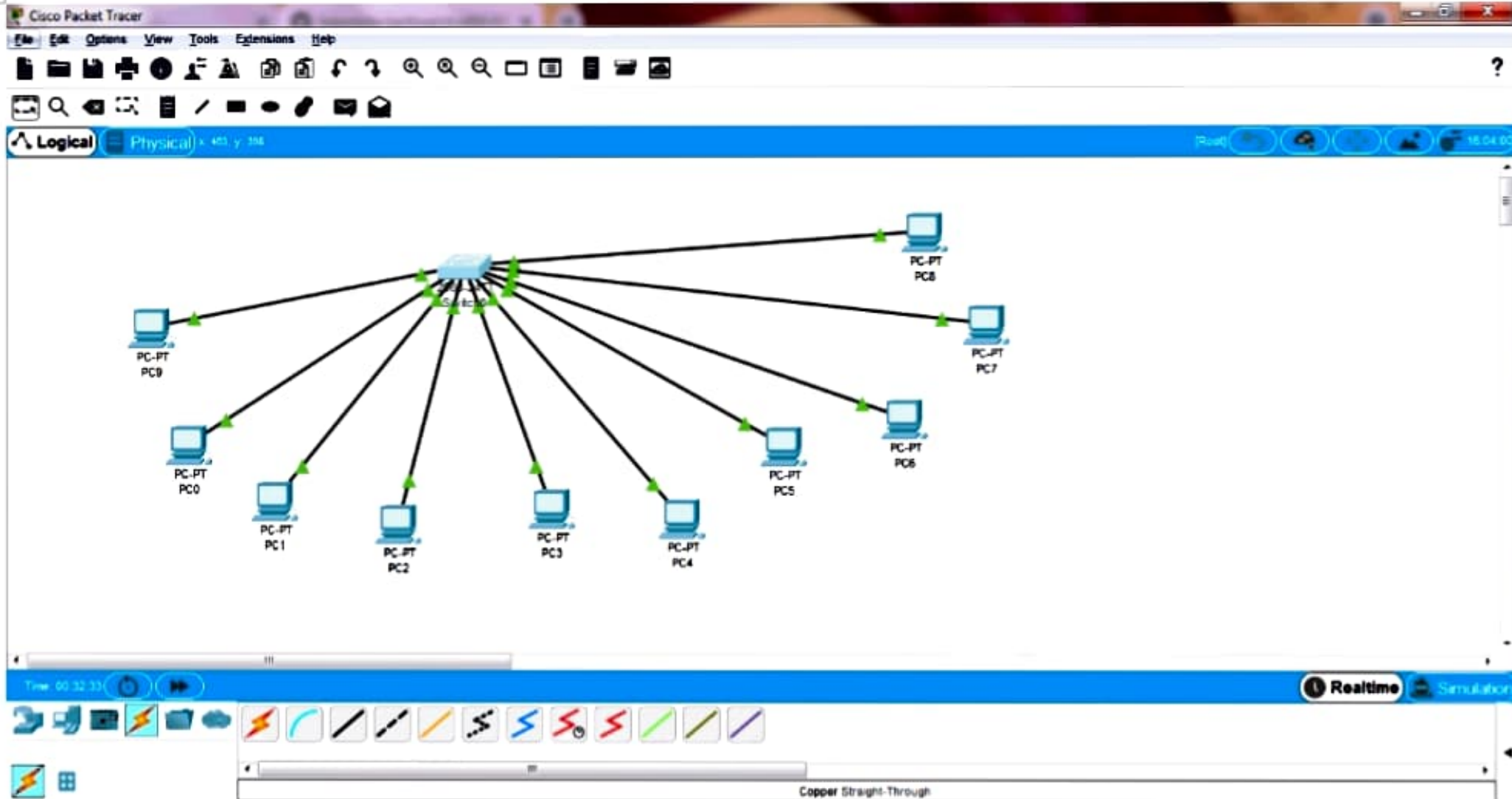
Description:

Step1:- Network Design

Step2:- IP Configuration

Step3:- Connectivity

Aakanksha Barthwal

PC9

Physical　　Config　　**Desktop**　　Programming　　Attributes

IP Configuration

		X

Interface　　FastEthernet0　　▼

IP Configuration

○ 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::20C:85FF:FE8C:BCE3	
IPv6 Gateway		
IPv6 DNS Server		

802.1X

☐ Use 802.1X Security

☐ Top

PC0

Physical   Config   Desktop   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0   ▼

IP Configuration

○ 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::20A:41FF:FEBE:B582

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

PC3

Physical | Config | Desktop | Programming | Attributes

IP Configuration   X

Interface   FastEthernet0   ▼

IP Configuration

⚪ 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::201:63FF:FEED:CA99

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

PC7

Physical   Config   Desktop   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration

○ DHCP   ● Static

IP Address   192.168.1.9

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:F3FF:FE1E:BE77

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

☐ Top

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
Packet Tracer PC Command Line 1.0
C:\>ip config
Invalid Command.

C:\>ipconngif
Invalid Command.

C:\>ipconfig

FastEthernet0 Connection:(default port)

   Link-local IPv6 Address.........: FE80::201:63FF:FEED:CA99
   IP Address......................: 192.168.1.5
   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:\>
```

☐ Top

PC9

Command Prompt   X

```
    Link-local IPv6 Address.........: FE80::20C:85FF:FE8C:BCE3
    IP Address......................: 192.168.1.1
    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 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<1ms 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 = 1ms, Average = 0ms

C:\>
```

Top

PC9

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
Reply from 192.168.1.5: bytes=32 time=2ms TTL=128
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<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 = 2ms, Average = 0ms

C:\>ipconfig

FastEthernet0 Connection:(default port)

    Link-local IPv6 Address.........: FE80::20C:85FF:FE8C:BCE3
    IP Address......................: 192.168.1.1
    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:\>
```

Top

Command Prompt   X

```
    Link-local IPv6 Address..........: FE80::201:63FF:FEED:CA99
    IP Address.......................: 192.168.1.5
    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 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

☐ Top