

1:-



Problem Statement: Design a network for the HR department and the

size of the department is 10 users.

Also, show the communication b/w user number 1 and user number 5 of the network

Objective: To understand network for HR department and how to connect them.

Description:

Step 1:- Taking 10 PC from End devices.

Step 2:- Taking Switch.

Step 3:- Taking Router

Step 4:- Taking wire & connect all PC's

Step 5:- Connect Router to switch.

Step 6:- Configuring Router: config → first Ethernet %

→ "Port status should be on"

→ IP → 192.168.0.1

Step 7:- Configuring PC: PC → Desktop

→ IP → I + will automatically assign IP to PC → DHCP

Step 8: Check Connection

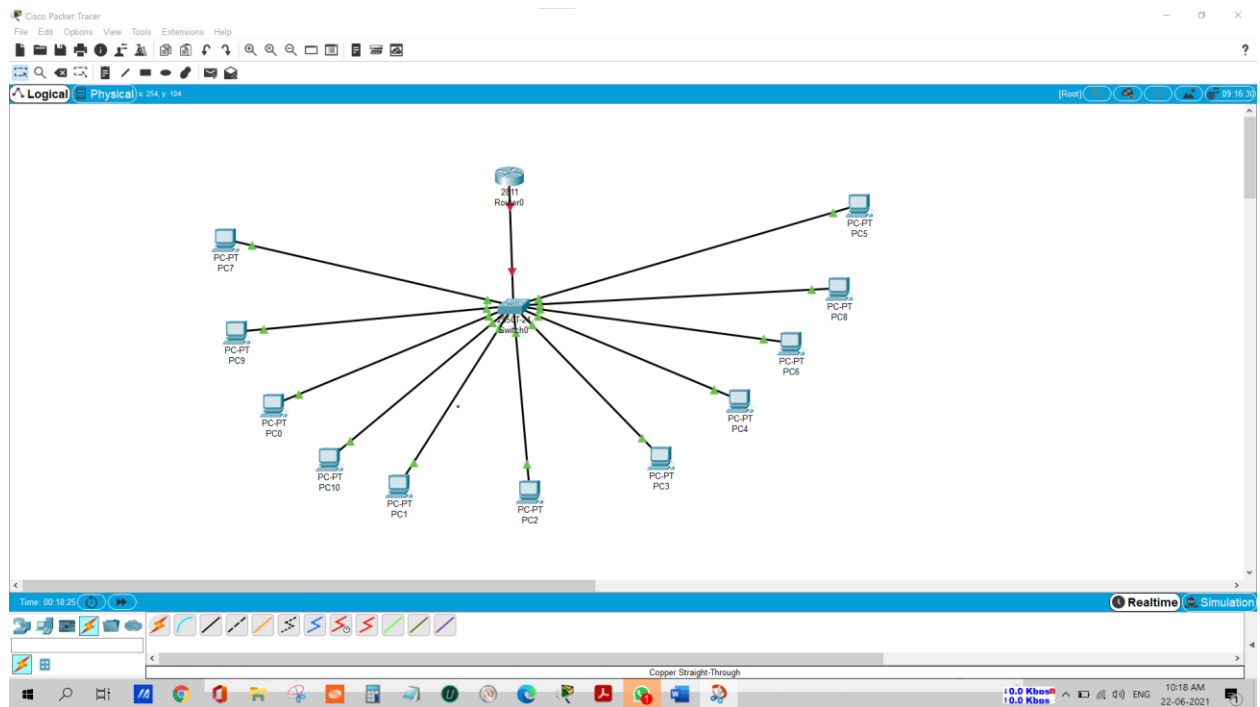
PC → Desktop

→ CMD → ping 192.168.0.5 (IP of
the 9th one PC)

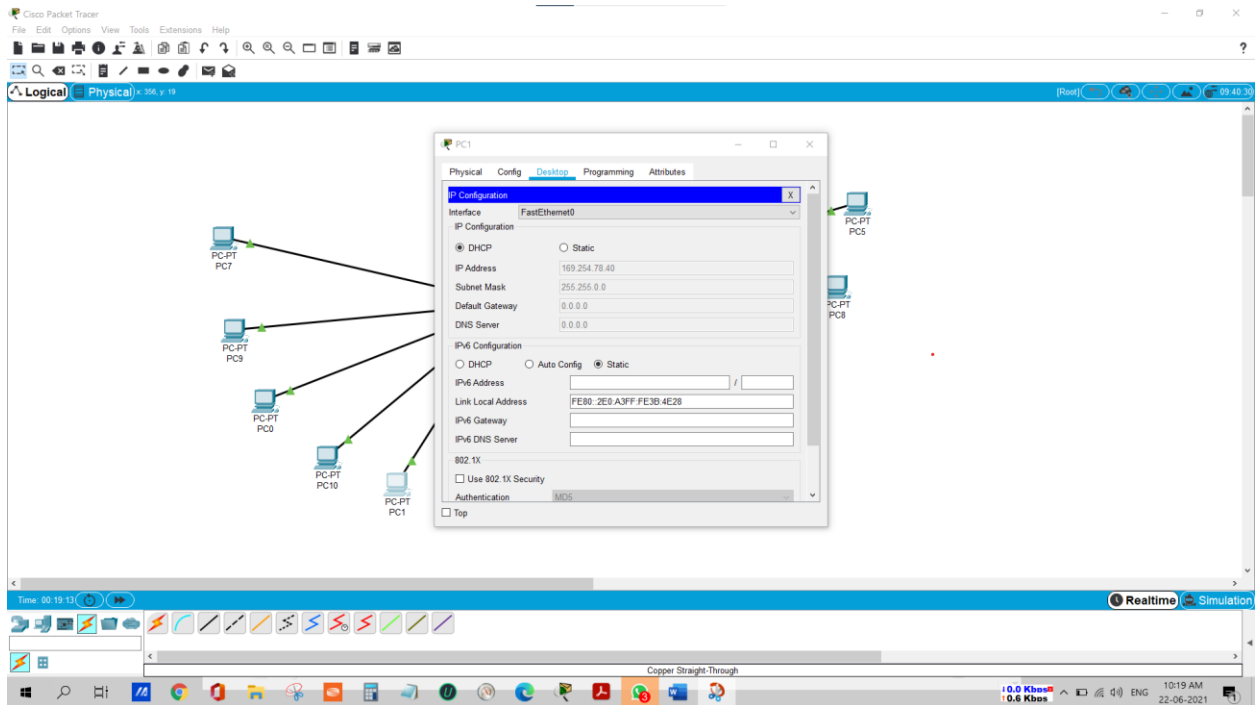
→ connected

Step 9: Exit.

Step 1:



Step 2



Step3

The screenshot shows the configuration window for Router0. The 'Config' tab is active, and the 'INTERFACE' section is selected in the left sidebar. The 'FastEthernet0/0' interface is highlighted. The configuration details for FastEthernet0/0 are as follows:

- Port Status:** ☐ On
- Bandwidth:** ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex:** ☒ Half Duplex ☐ Full Duplex ☒ Auto
- MAC Address:** 0002.17D3.8201
- IP Configuration:**
 - IP Address:** 192.168.0.1
 - Subnet Mask:** 255.255.255.0
- Tx Ring Limit:** 10

Below the configuration details, the 'Equivalent IOS Commands' are listed:

```
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.0.1 255.255.255.0
Router(config-if)#ip address 192.168.0.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

At the bottom left, there is a 'Top' button.

In the background, two PC icons are visible, labeled 'PC-PT PC5' and 'PC-PT PC8'.

Step 4

