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Q1.

### Problem Statement :

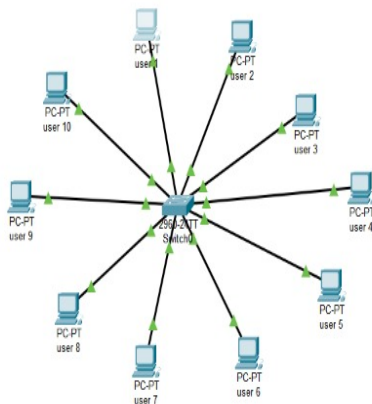
There is an organization A with multiple departments. Design a network for HR department is 10 users. Also show the communication b/w user number 1 and user number 5 of the network.

### Objective :

To understand how to create a wired LAN using switch in packet tracer.

### Steps:

1. Choose the end devices icon and extract 10 desktops.
2. Add a switch device to connect the desktops.
3. Connect the desktop via switch using cross over cable.
4. Give IP address to each desktop.



```

user 1
Physical Config Desktop Programming Attributes
Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 10.1.1.5

Pinging 10.1.1.5 with 32 bytes of data:

Reply from 10.1.1.5: bytes=32 time=1ms TTL=128
Reply from 10.1.1.5: bytes=32 time=1ms TTL=128
Reply from 10.1.1.5: bytes=32 time=1ms TTL=128
Reply from 10.1.1.5: bytes=32 time=1ms TTL=128

Ping statistics for 10.1.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
  
```

Q2.

**Problem Statement:**  
 There are two organizations in a city named GBU and GEHU, design a network the SOC dept of GBU and GEHU, Also show the communication b/w user number 1 of GBU and user number 2 of GEHU

**Objective:**  
 To understand how to connect LANs using the router.

**Steps:**

1. Create LAN-1 with 4 pc and create another network also with 4 pcs.
2. Connect both LAN with the router and configure the router.
3. Default gateway for LAN1 is 10.0.0.5, and default gateway for LAN2 is 192.168.1.5
4. Send PDU to test if the connection is established.

