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Batch : D, T.E. Comps

Subject : DCCN

EXPERIMENT NO. 4

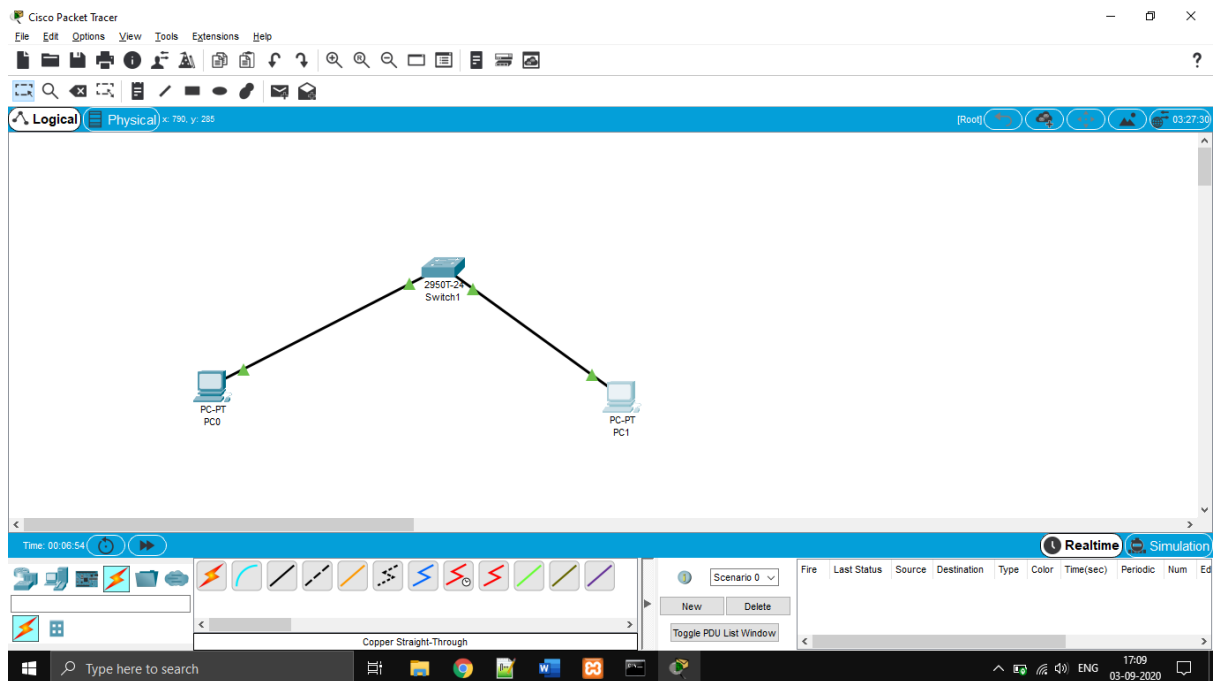
Aim : Prototype a network using Packet Tracer

Background

A client has requested that you set up a simple network with two PCs connected to a switch. Verify that the hardware, along with the given configurations, meet the requirements of the client.

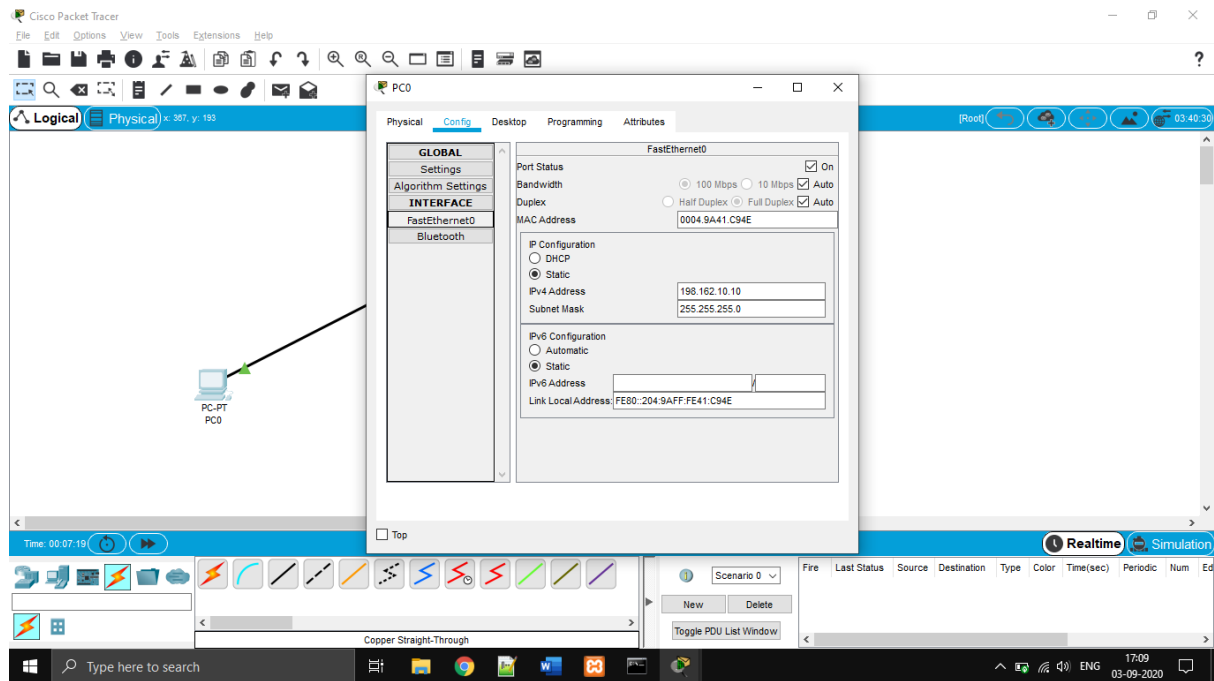
Step 1: Set up the network topology

- a) Add two PCs and a Cisco 2950T switch
- b) Using straight-through cables, connect **PC0** to interface **Fa0/1** on **Switch0** and **PC1** to interface **Fa0/2** on **Switch0**.



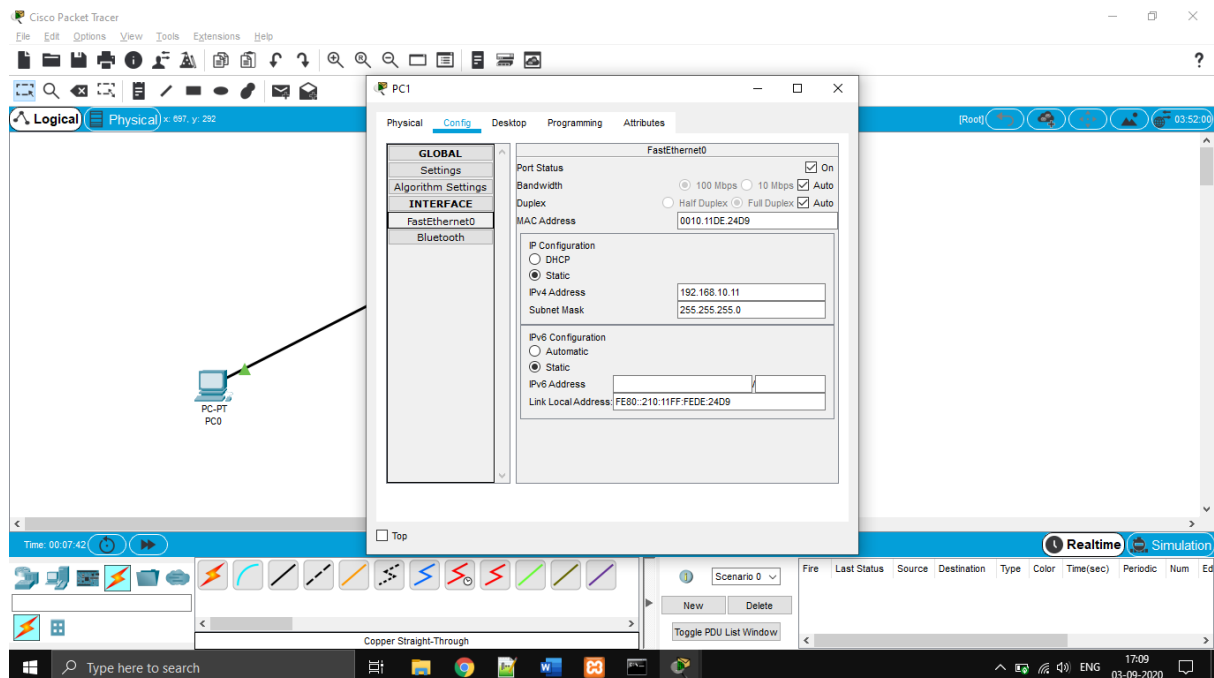
c) Configure PC0 using the **Config** tab in the PC0 configuration window:

- a. IP address: 192.168.10.10
- b. Subnet Mask 255.255.255.0



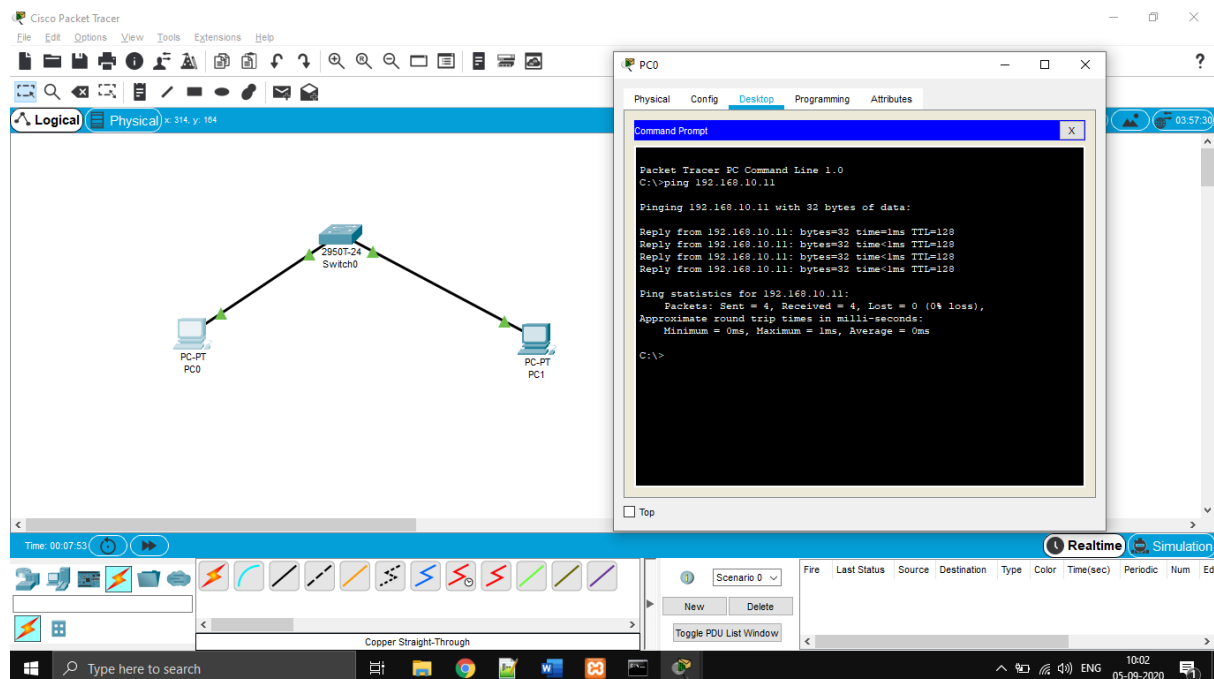
d) Configure PC1 using the **Config** tab in the PC1 configuration window

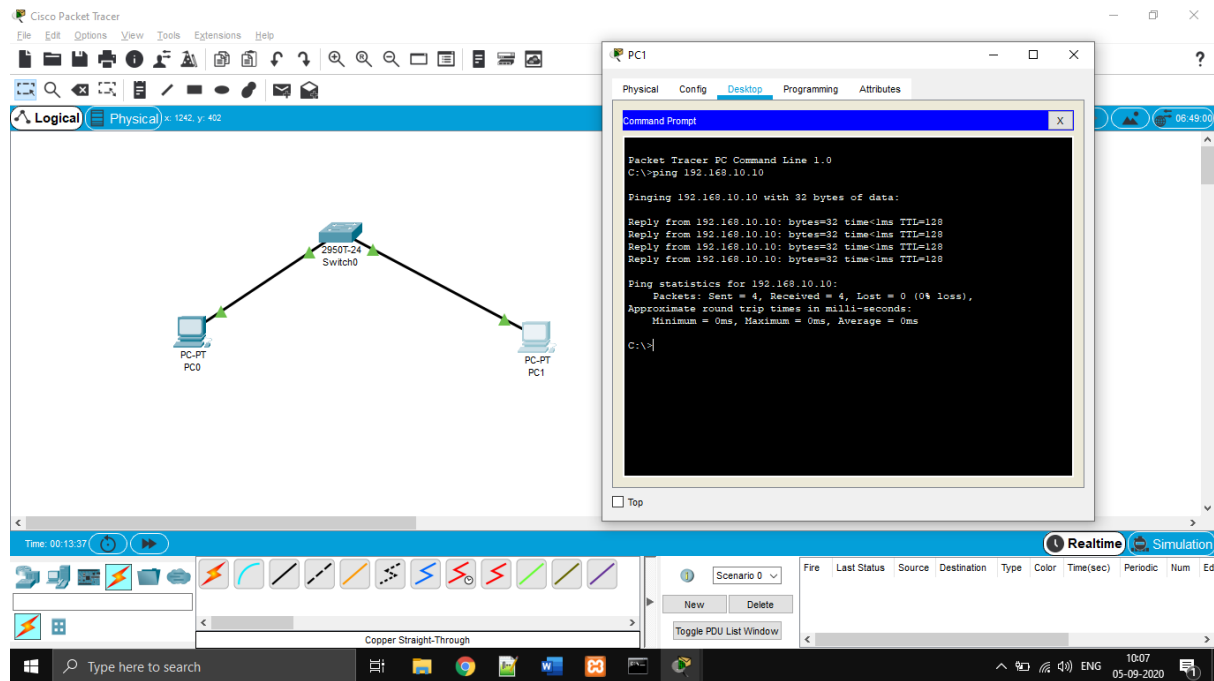
- a. IP address: 192.168.10.11
- b. Subnet Mask 255.255.255.0



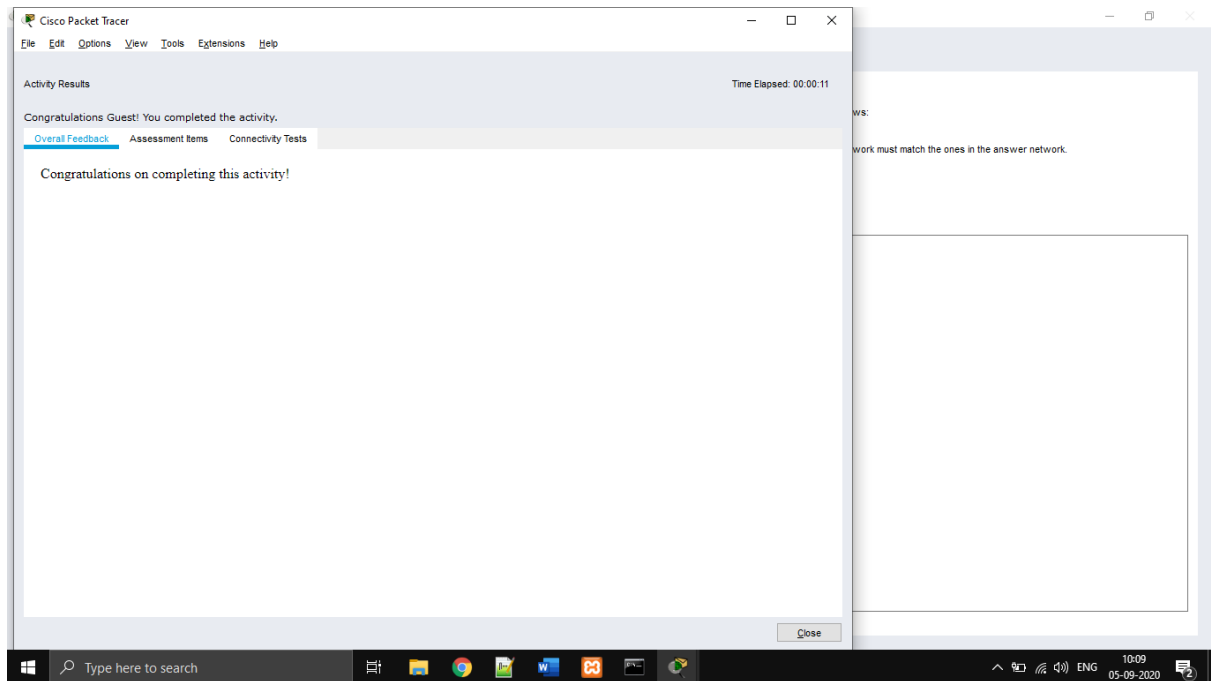
Step 2: Test connectivity from PC0 to PC1

- a) Use the **ping** command to test connectivity.
 - a. Click PC0.
 - b. Choose the **Desktop** tab.
 - c. Choose **Command Prompt**.
 - d. Type: **ping 192.168.10.11** and press *enter*.
- b) A successful **ping** indicates the network was configured correctly and the prototype validates the hardware and software configurations. A successful ping should resemble the below output:



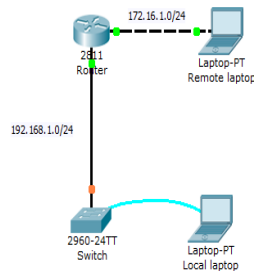


- c) Close the configuration window.
- d) Click the **Check Results** button at the bottom of the instruction window to check your work..

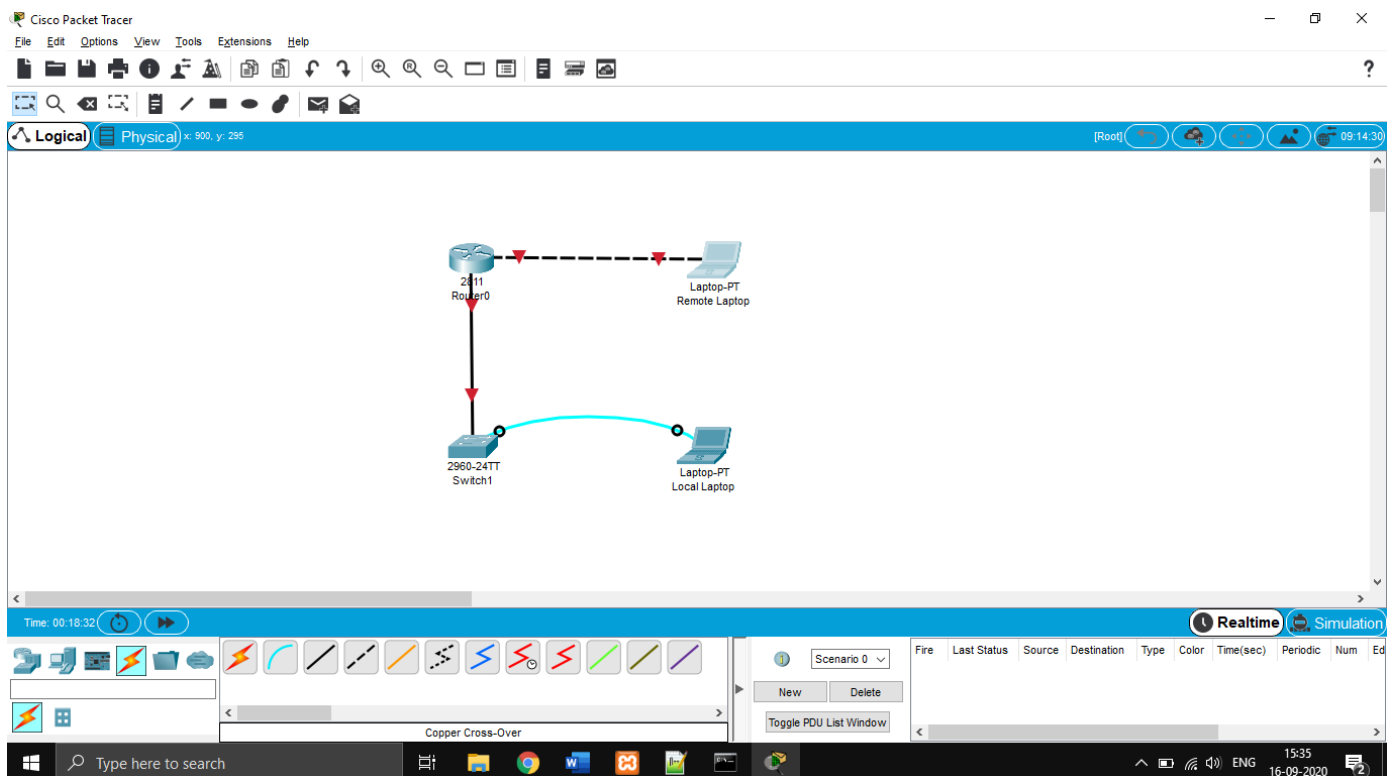


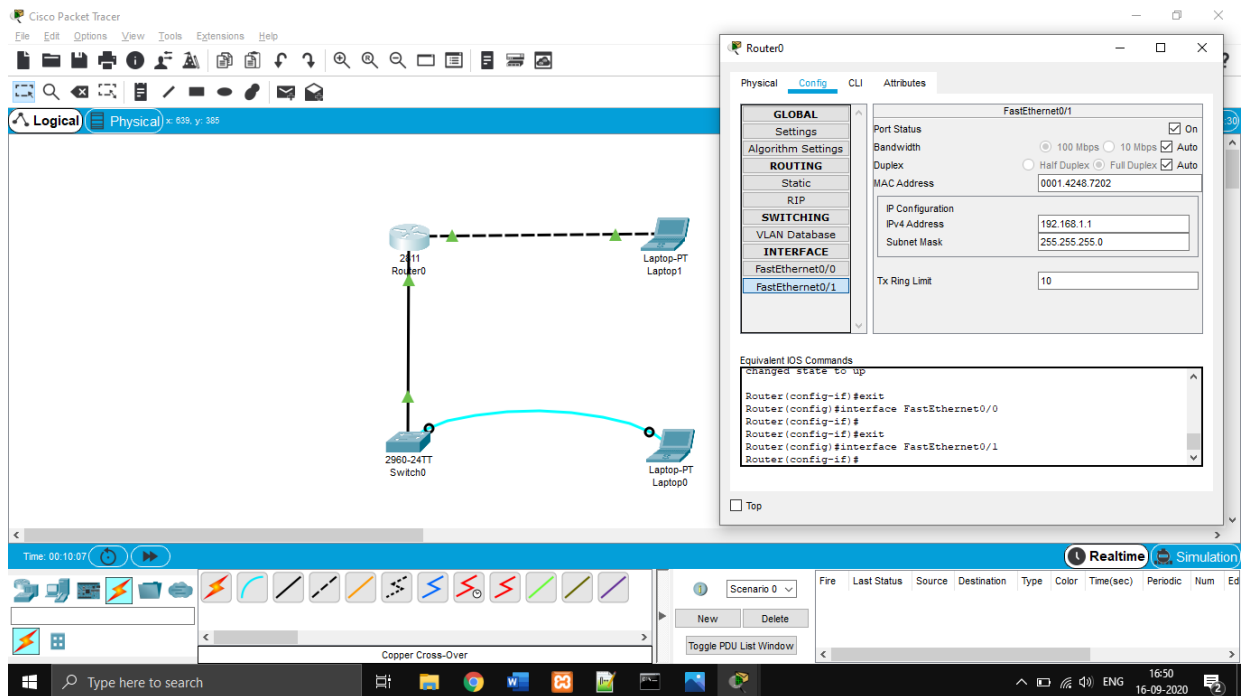
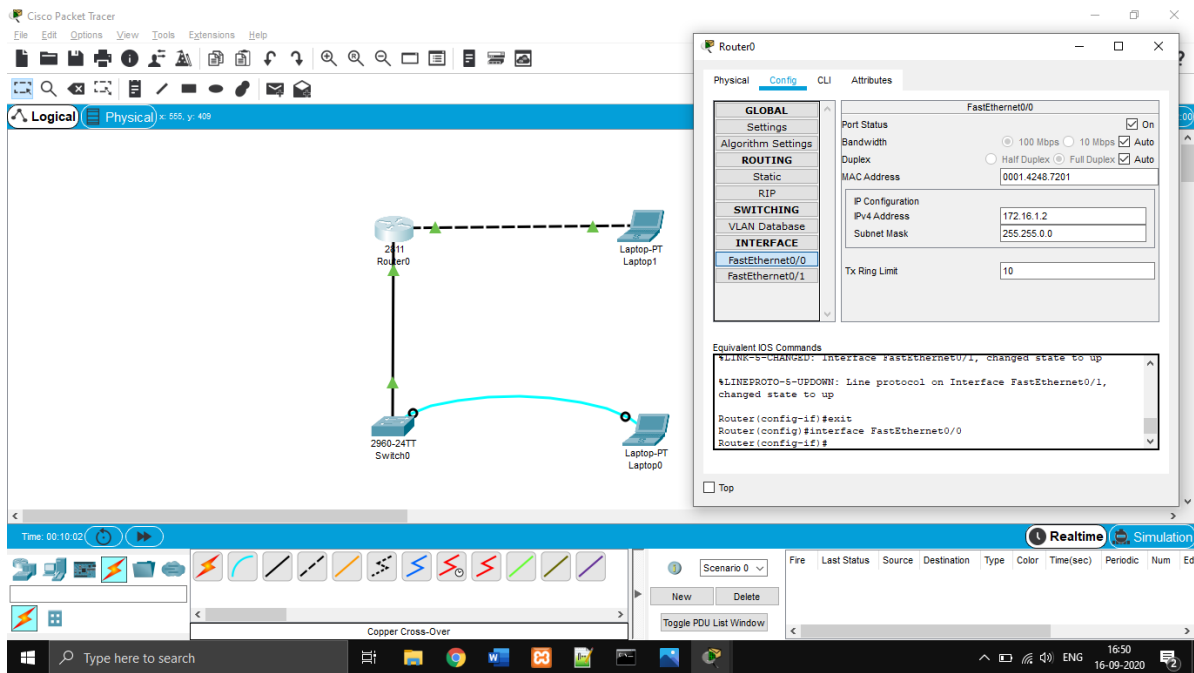
Objective:

This lab will test your ability to configure basic settings such as hostname, motd banner, encrypted passwords, and terminal options on a Packet Tracer 6.2 simulated Cisco Catalyst switch.



1. Use the local laptop connect to the switch console.





Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 810, y: 420

2411 Router0

2960-24TT Switch0

Laptop-PT Remote Laptop

Time: 00:11:26

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Copper Cross-Over

Type here to search

Remote Laptop

Physical Config Desktop Programming Attributes

GLOBAL Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 000A.41CB.0CAB

IP Configuration

☐ DHCP

☒ Static

Pv4 Address 172.16.1.1

Subnet Mask 255.255.0.0

Pv6 Configuration

☐ Automatic

☒ Static

Pv6 Address

Link Local Address FE80::20A:41FF:FE0B:CAB

☐ Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 817, y: 420

2411 Router0

2960-24TT Switch0

Laptop-PT Remote Laptop

Time: 00:12:30

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Copper Cross-Over

Type here to search

Remote Laptop

Physical Config Desktop Programming Attributes

GLOBAL Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

Global Settings

Display Name Remote Laptop

Interfaces FastEthernet0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 172.16.1.2

DNS Server

Gateway/DNS IPv6

☐ Automatic

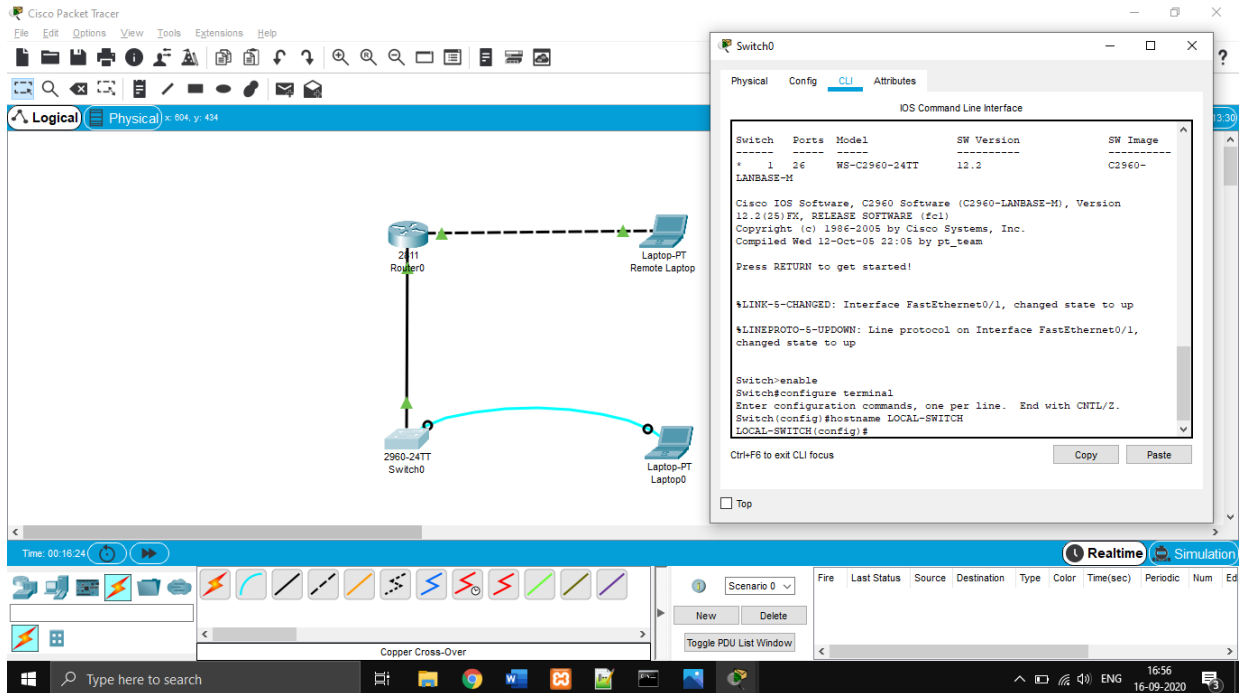
☒ Static

Default Gateway

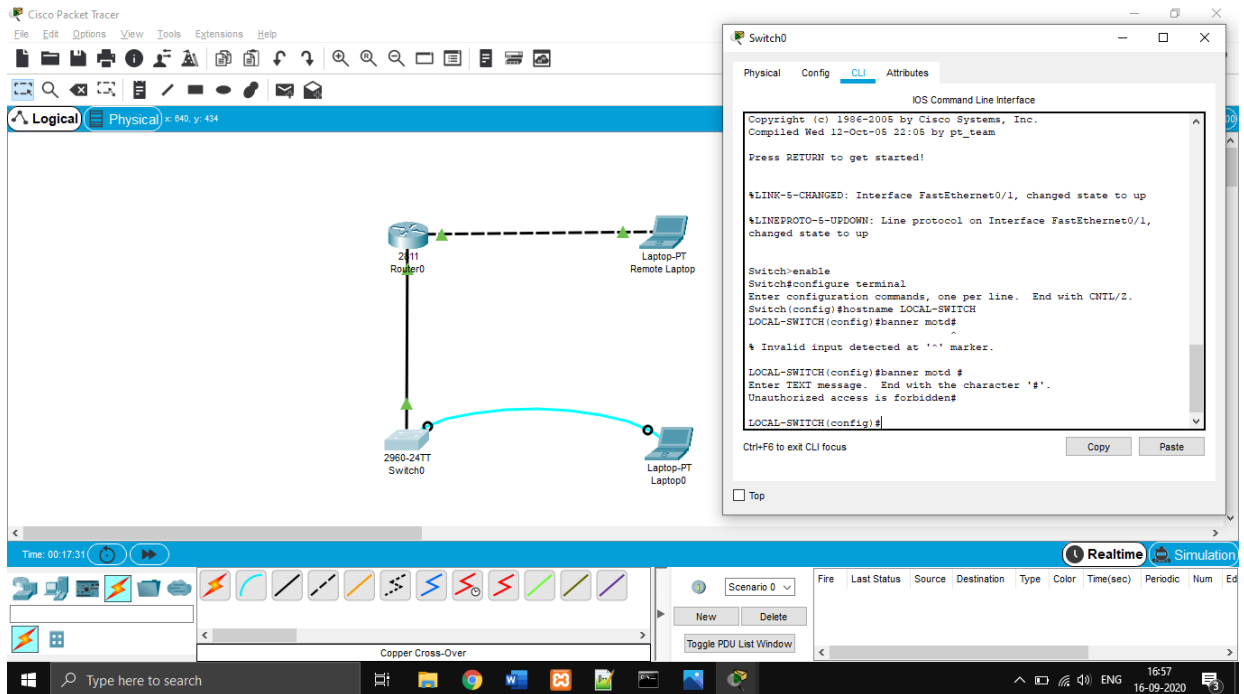
DNS Server

☐ Top

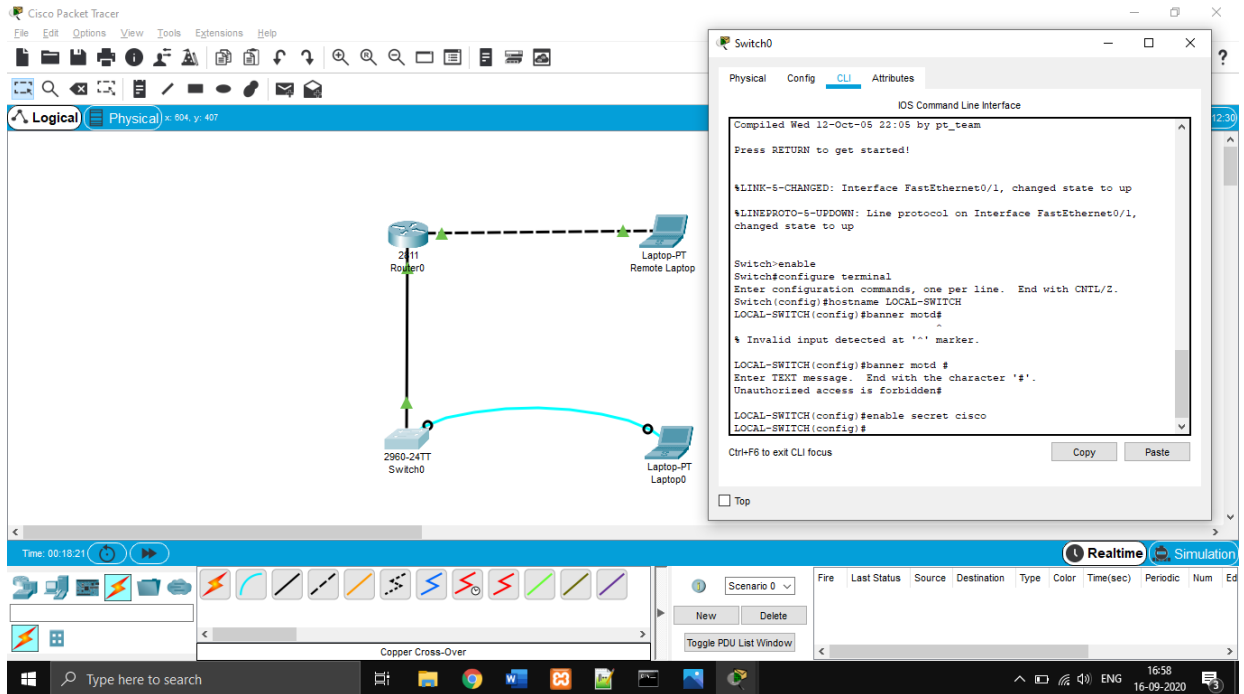
2. Configure Switch hostname as LOCAL-SWITCH



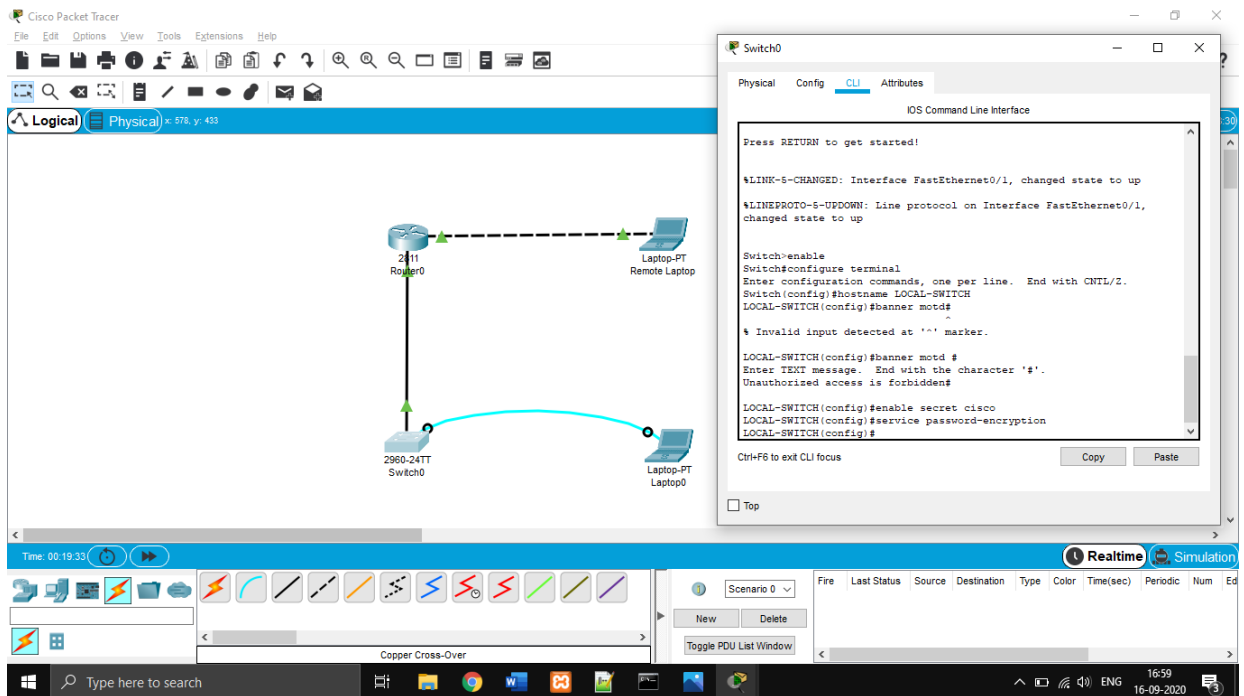
3. Configure the message of the day as "Unauthorized access is forbidden"



4. Configure the password for privileged mode access as "cisco". The password must be md5 encrypted



5. Configure password encryption on the switch using the global configuration command



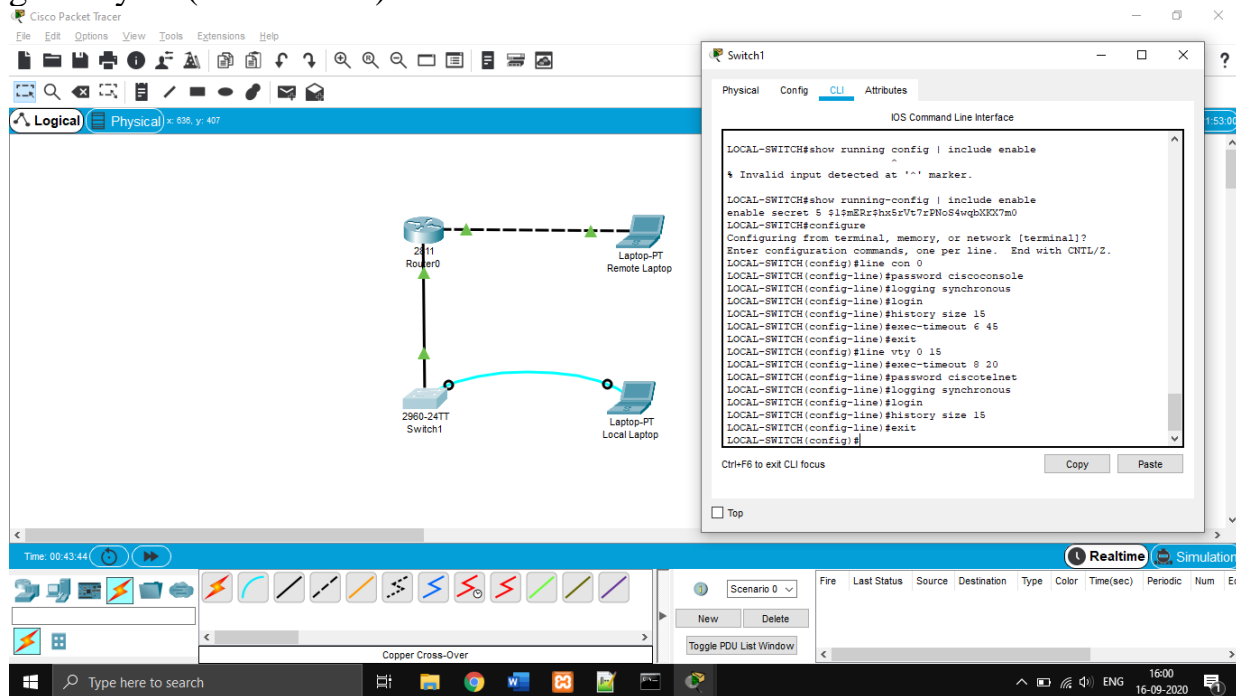
6. Configure CONSOLE access with the following settings:

- Login enabled
- Password : whatever you like
- History size : 15 commands
- Timeout : 6'45"
- Synchronous logging

6. Configure TELNET access with the following settings :

- Login enabled
- Password : whatever you like
- History size : 15 commands
- Timeout : 8'20"
- Synchronous logging

7. Configure the IP address of the switch as 192.168.1.2/24 and it's default gateway IP (192.168.1.1).



8. Test telnet connectivity from the Remote Laptop using the telnet client.

