

# CEL 51, DCCN, Monsoon 2020

## Lab 4: Prototyping a Network

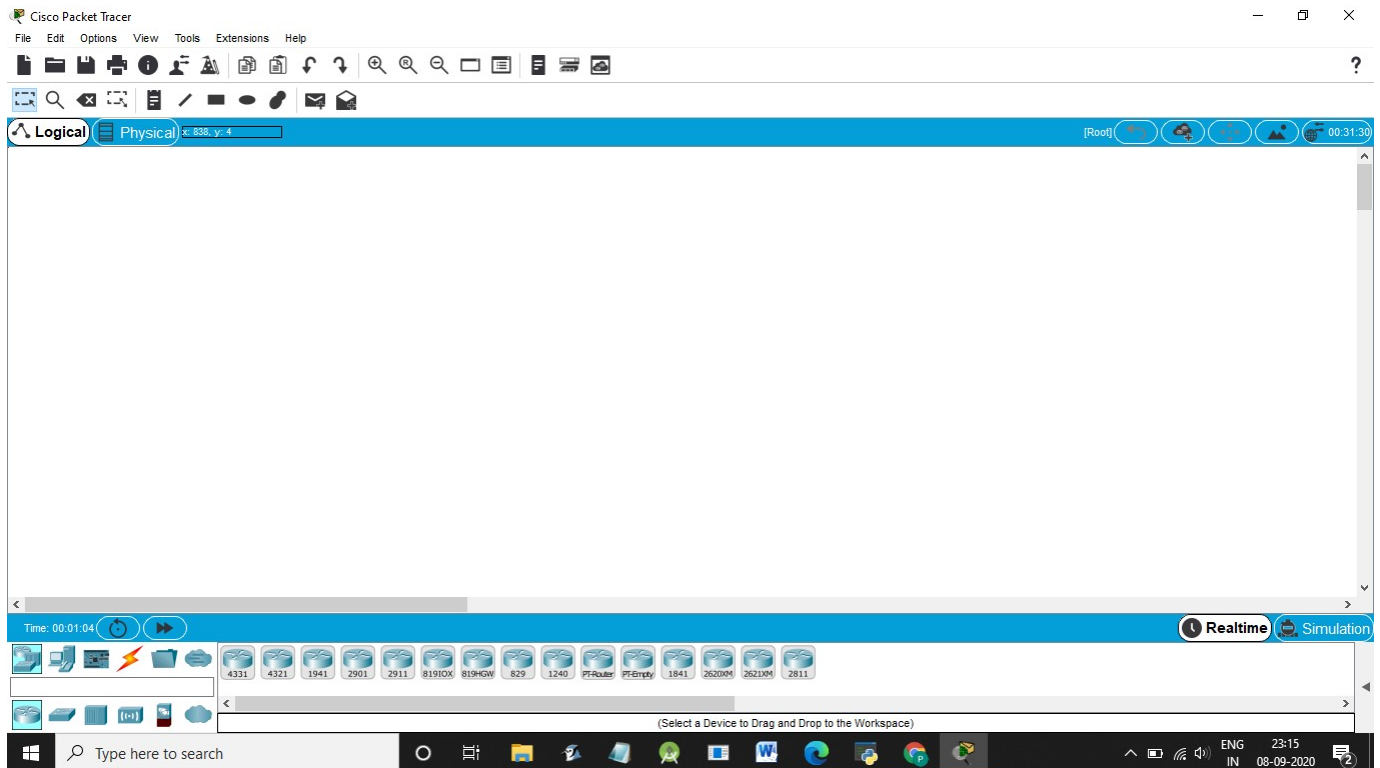
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### Objective:

Prototype a network using Packet Tracer

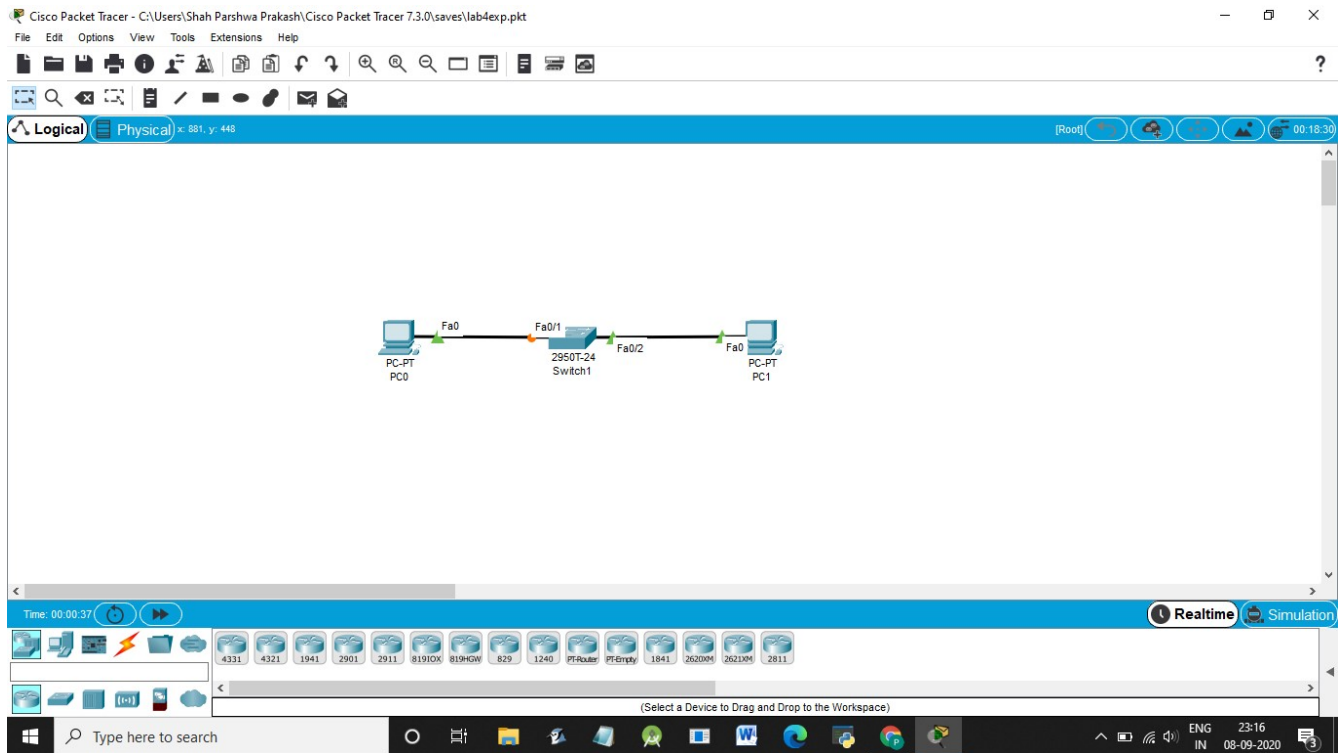
### Background

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.

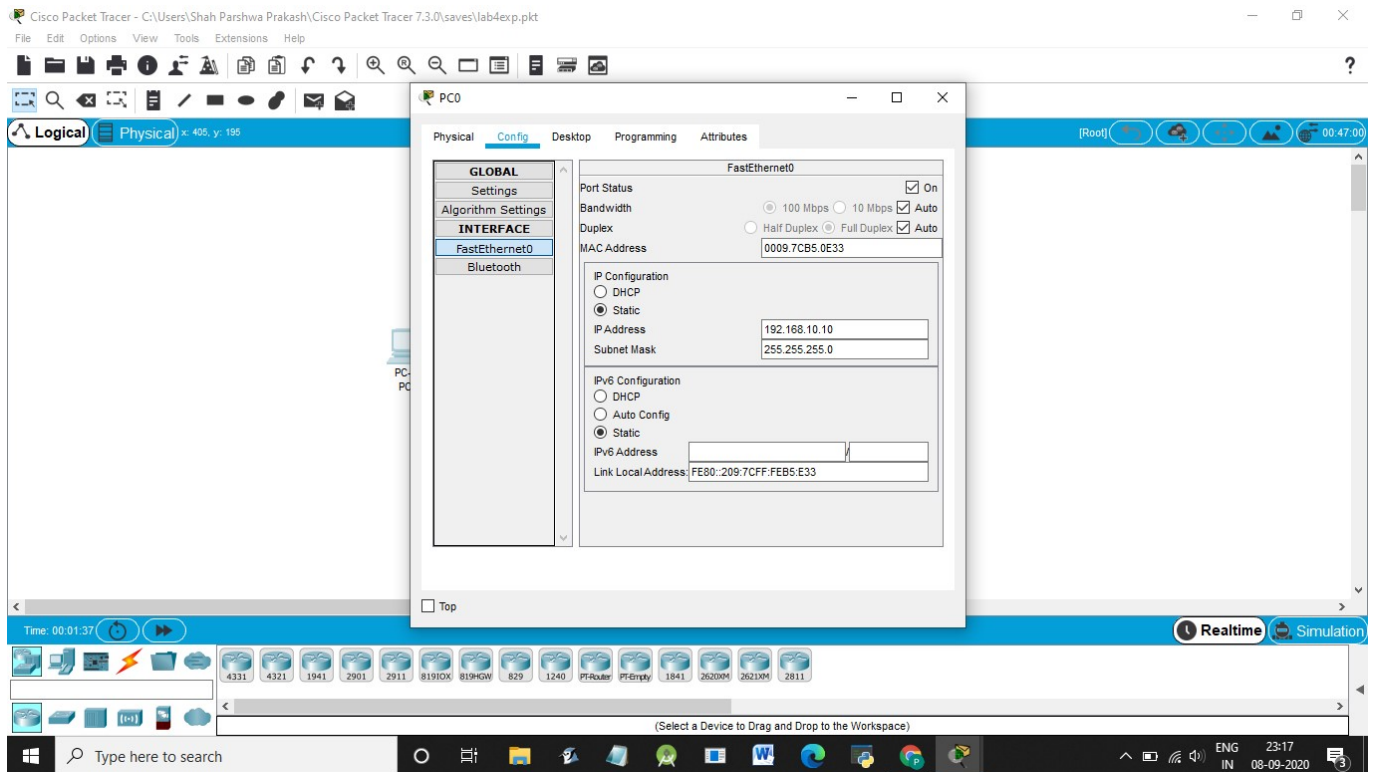


### Step 1: Set up the network topology

- a) Add two PCs and a Cisco 2950T switch

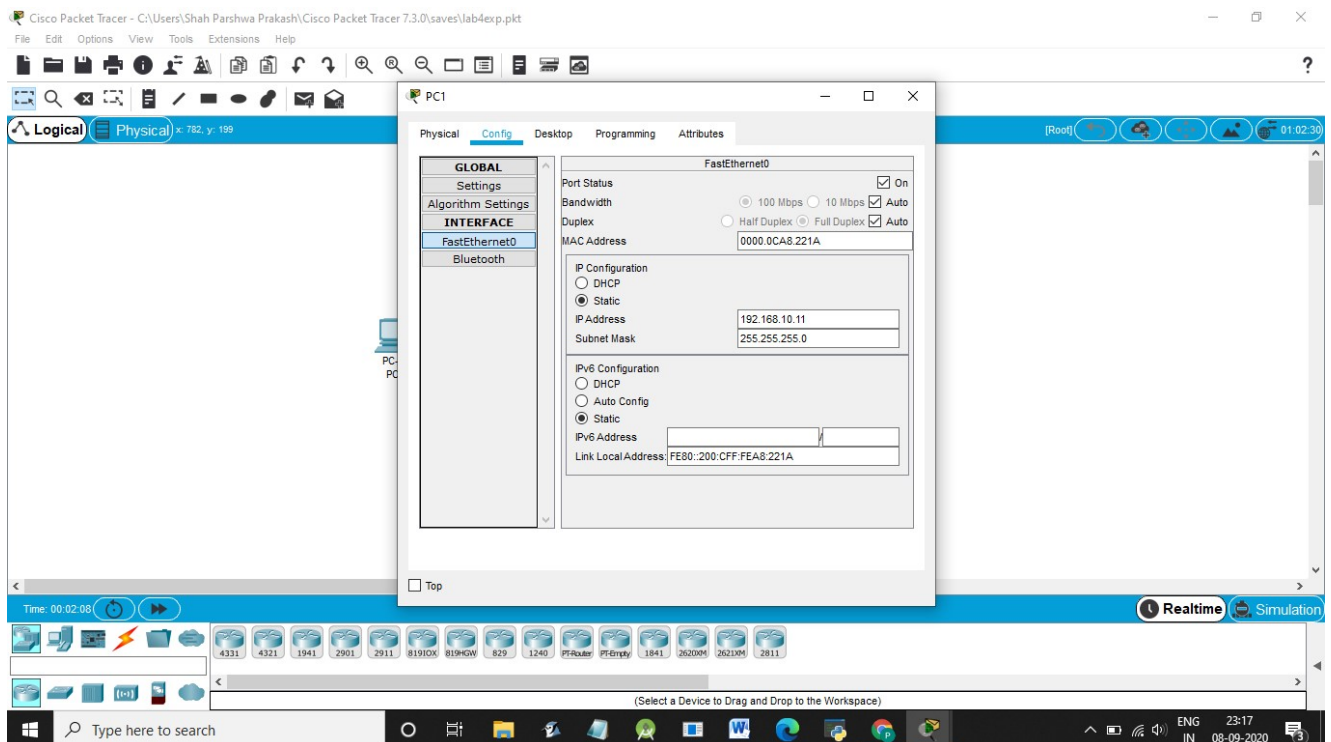


- b) Using straight-through cables, connect **PC0** to interface **Fa0/1** on **Switch0** and **PC1** to interface **Fa0/2** on **Switch0**.
- c) Configure PC0 using the **Config** tab in the PC0 configuration window:
  - a. IP address: 192.168.10.10
  - b. Subnet Mask 255.255.255.0



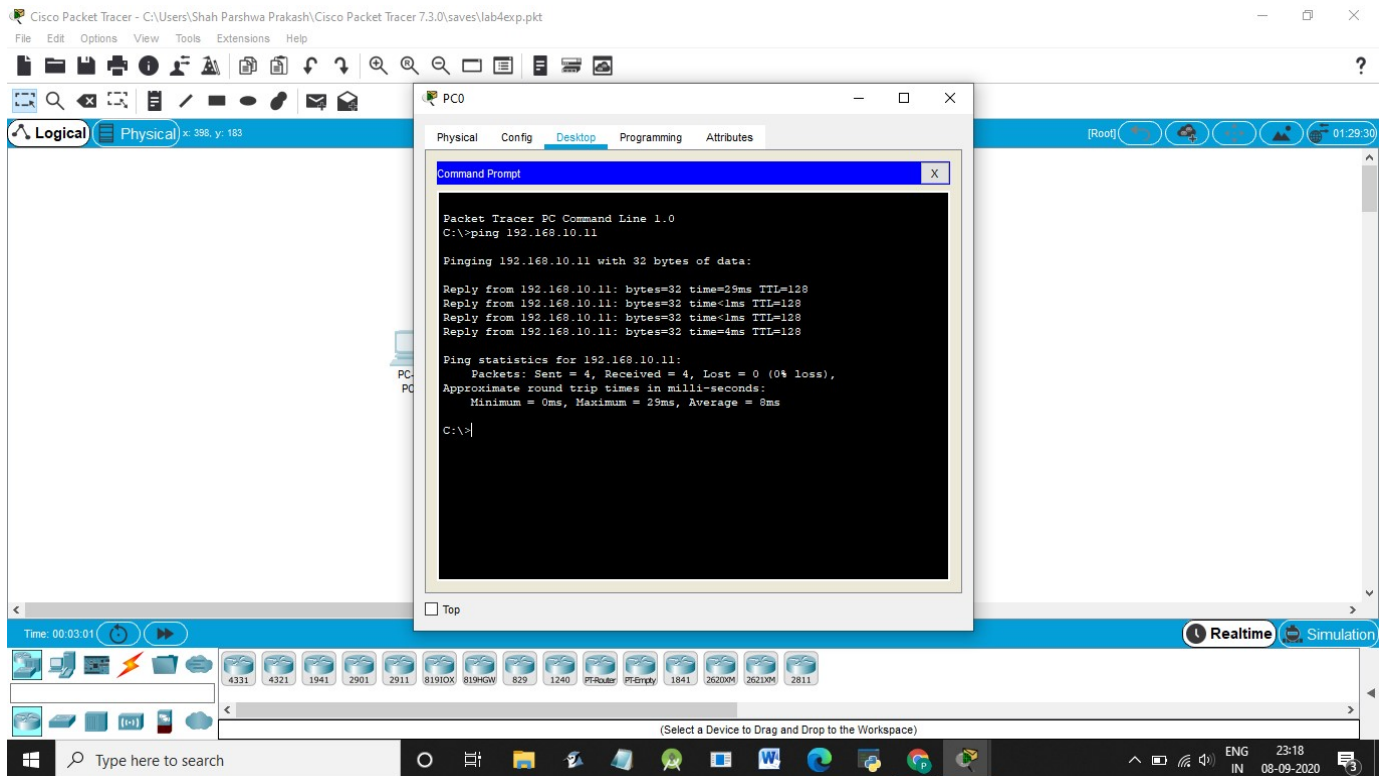
d) Configure PC1 using the **Config** tab in the PC1 configuration window

- IP address: 192.168.10.11
- 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:



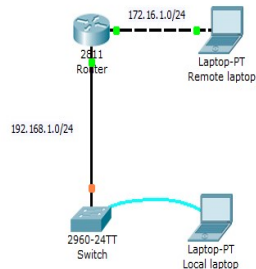
- c) Close the configuration window.
- d) Click the **Check Results** button at the bottom of the instruction window to check your work..

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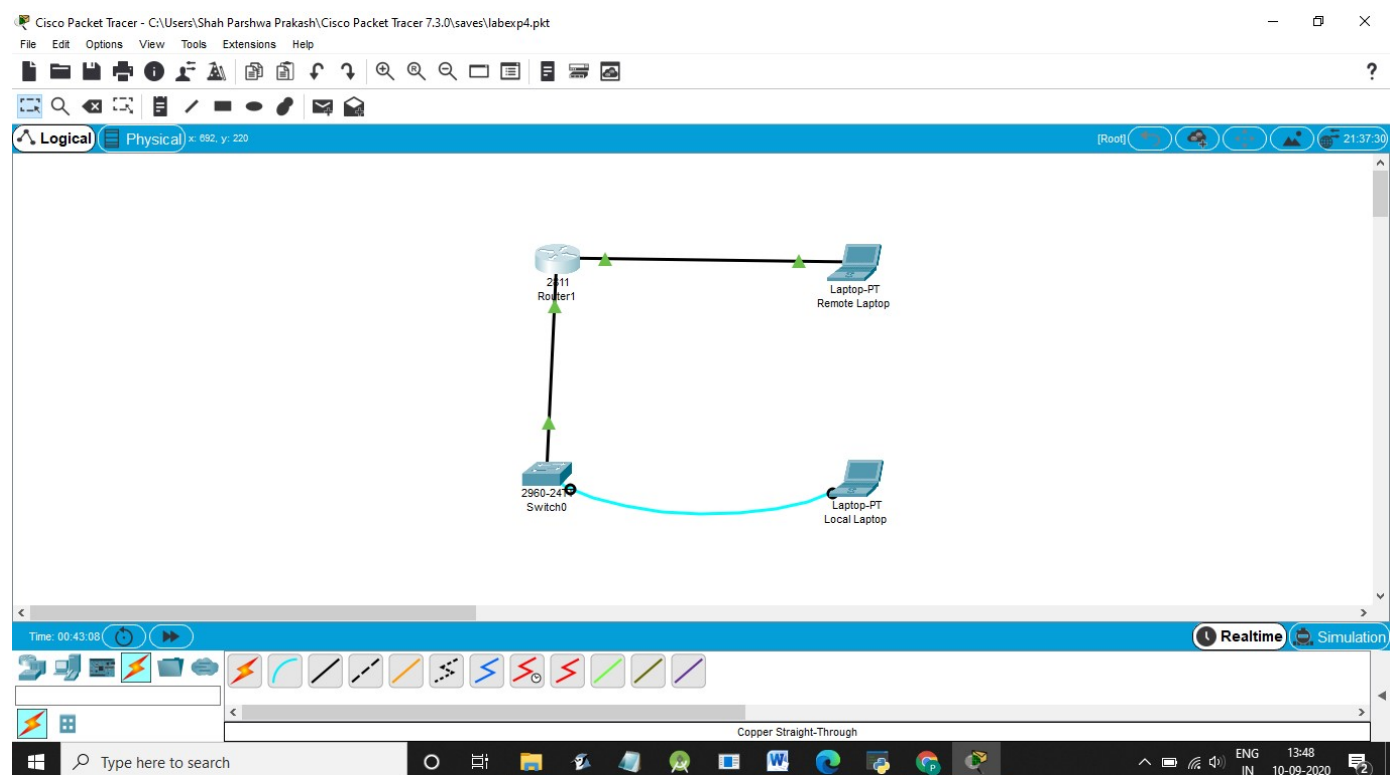
## Lab 4.1: Basic configuration - hostname, motd banner, passwd etc

### Objective:

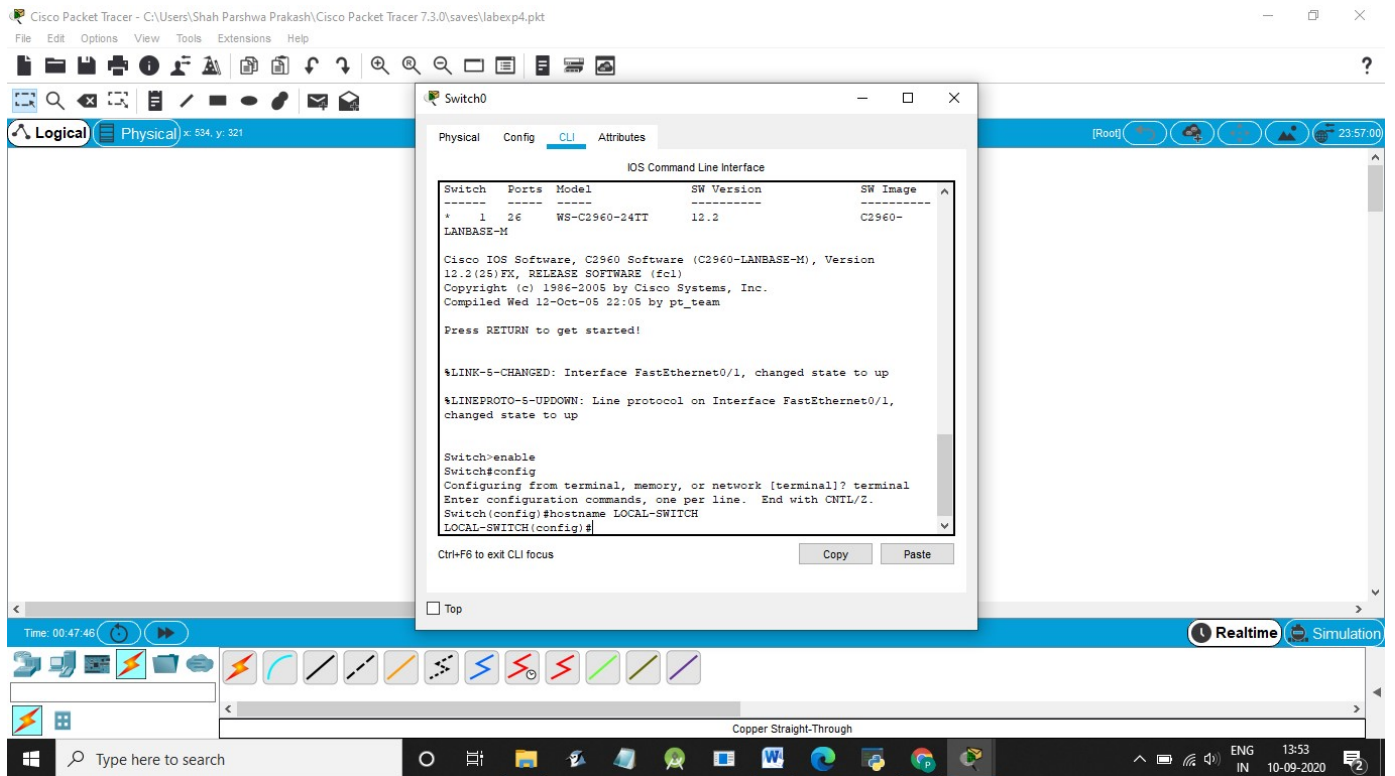
This lab will test your ability to configure basic settings such as hostname, motd banner, encrypted passwords, and terminal options on a Packet Tracer 6.2 simulated Cisco Catalyst switch.



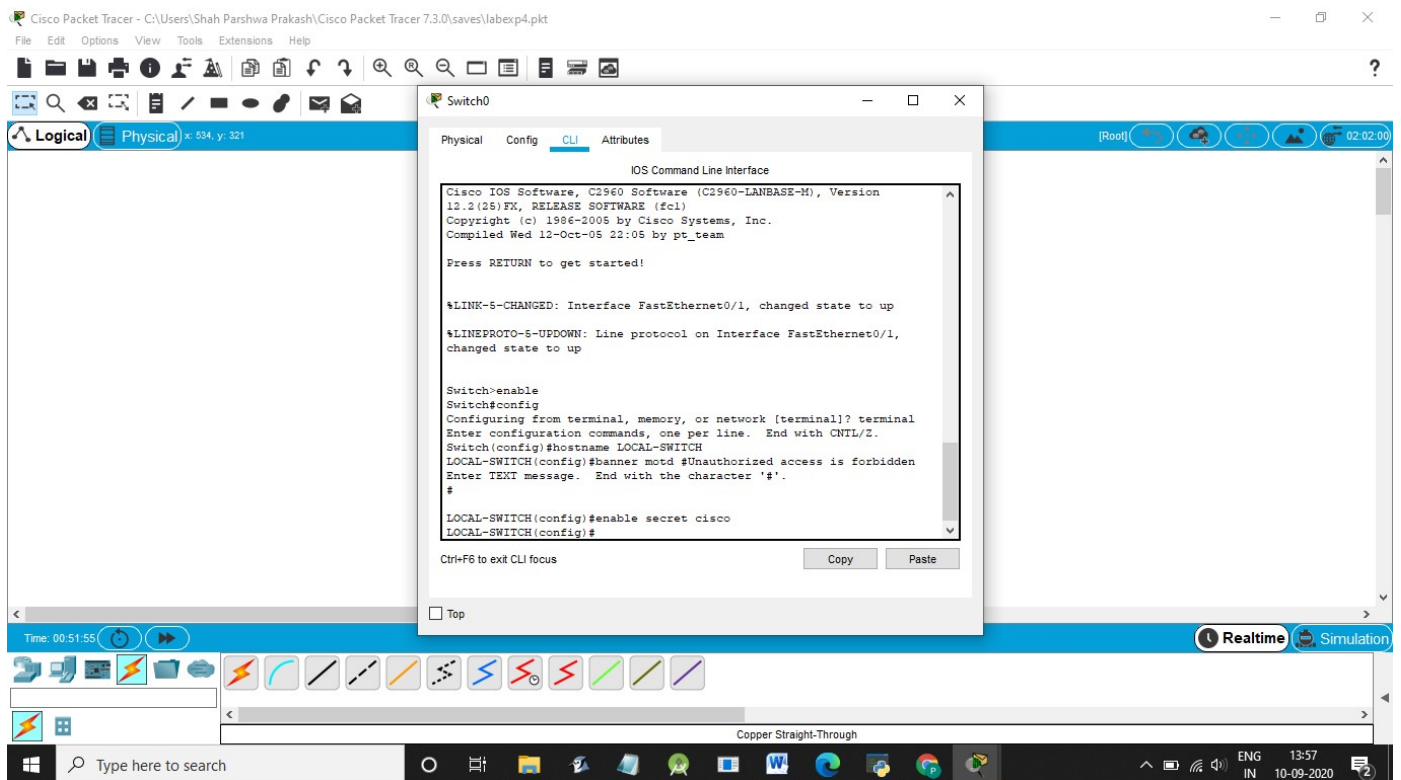
1. Use the local laptop connect to the switch console.



2. Configure Switch hostname as LOCAL-SWITCH

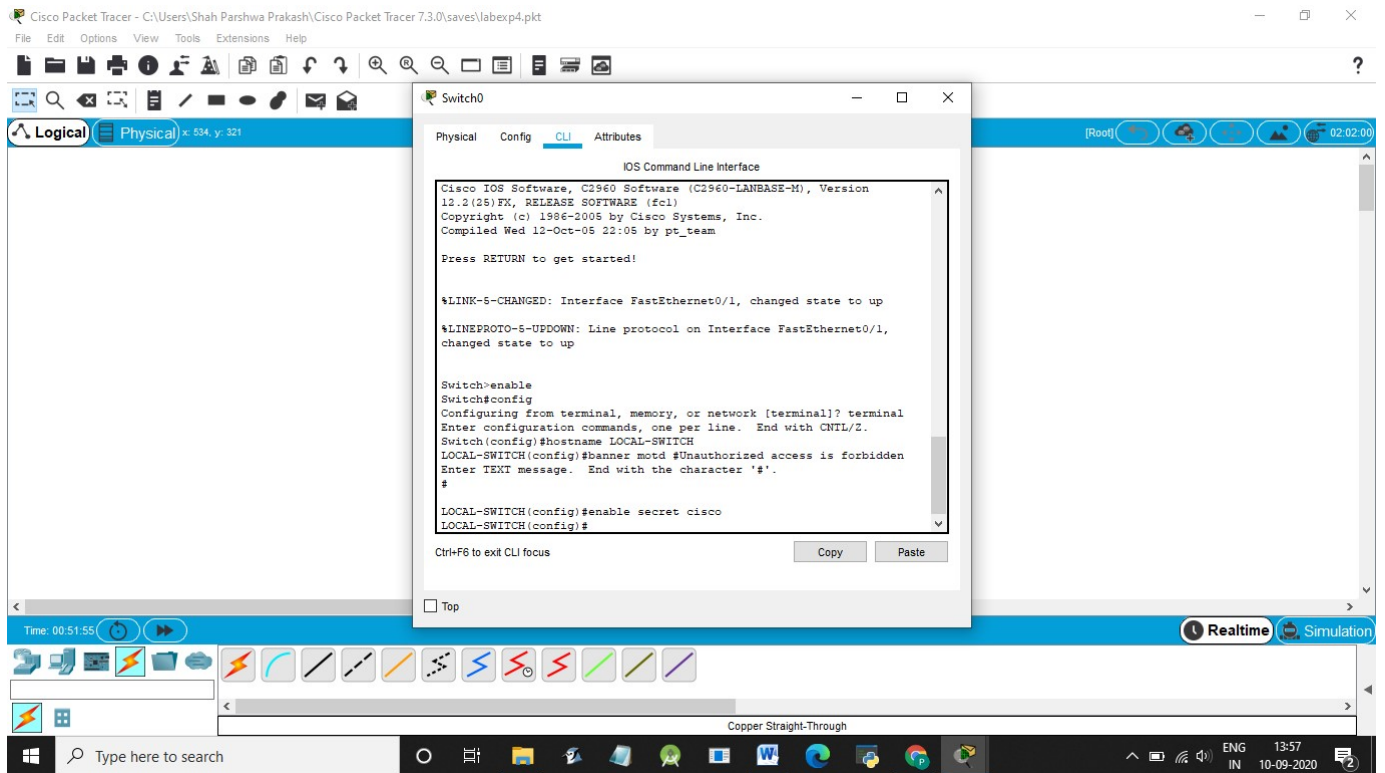


### 3. Configure the message of the day as "Unauthorized access is forbidden"

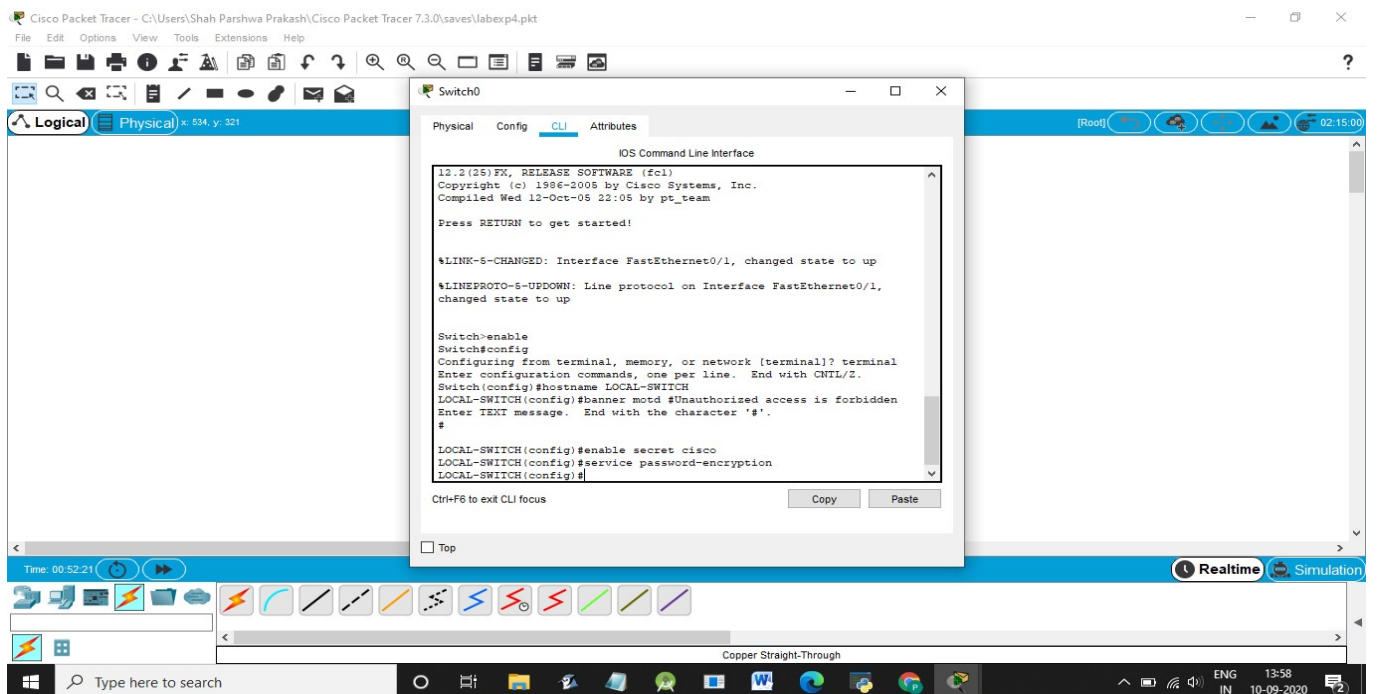


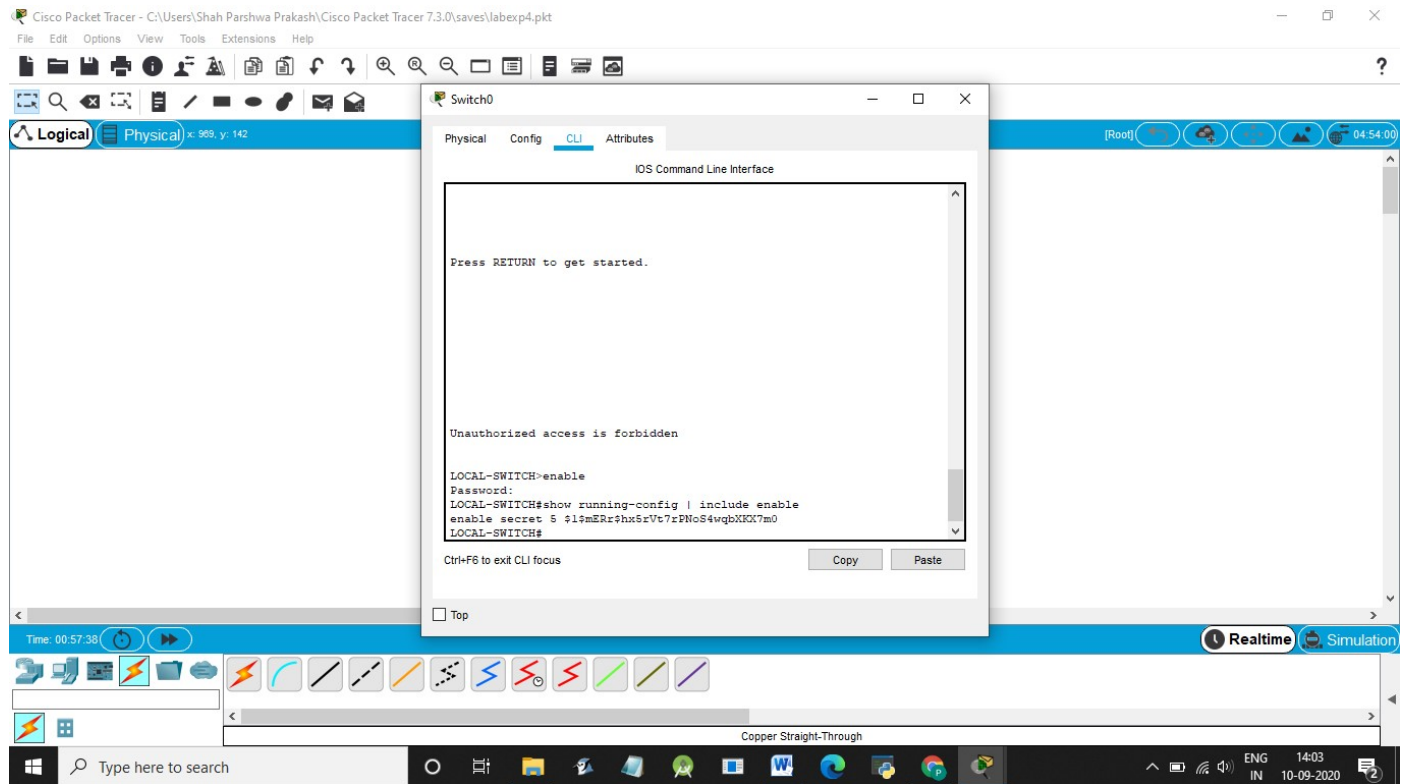


#### 4. Configure the password for privileged mode access as "cisco". The password must be md5 encrypted



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

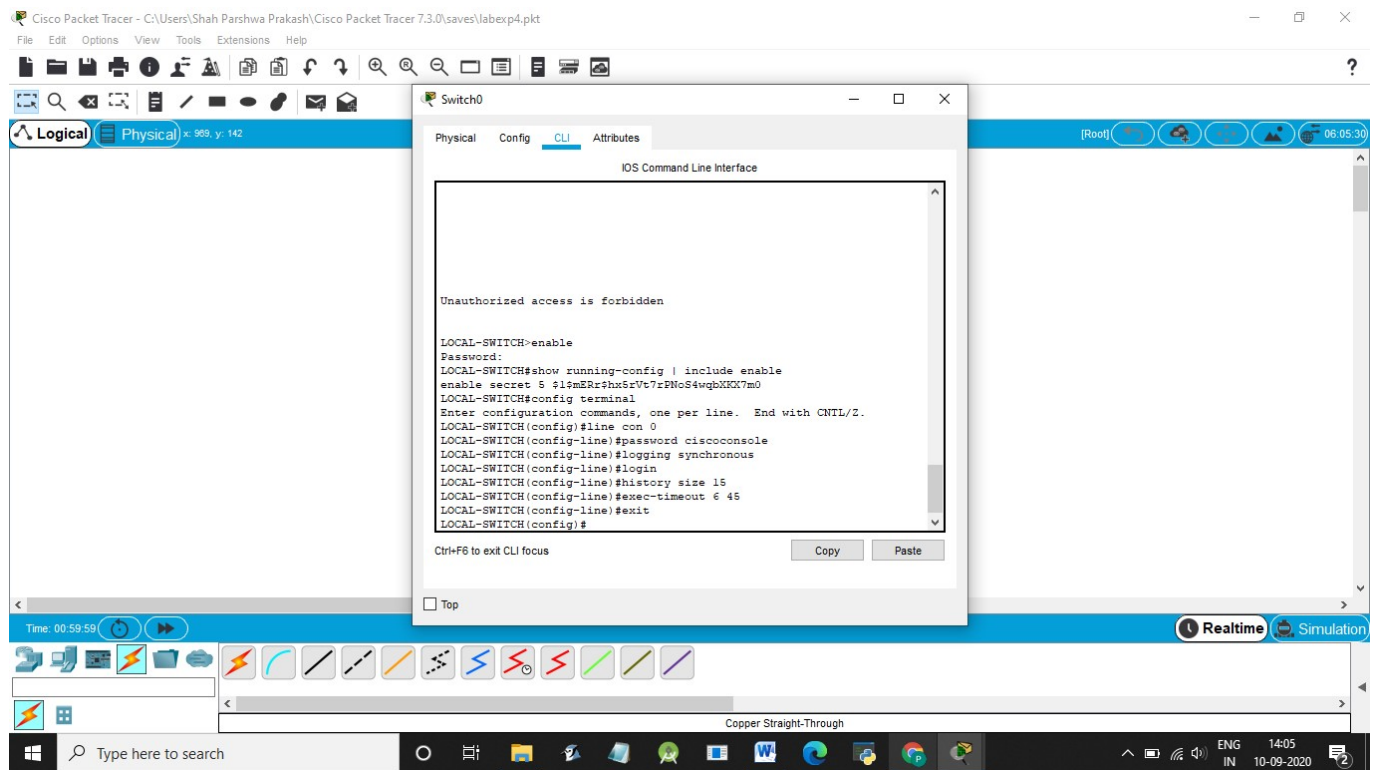




6. Configure CONSOLE access with the following settings :

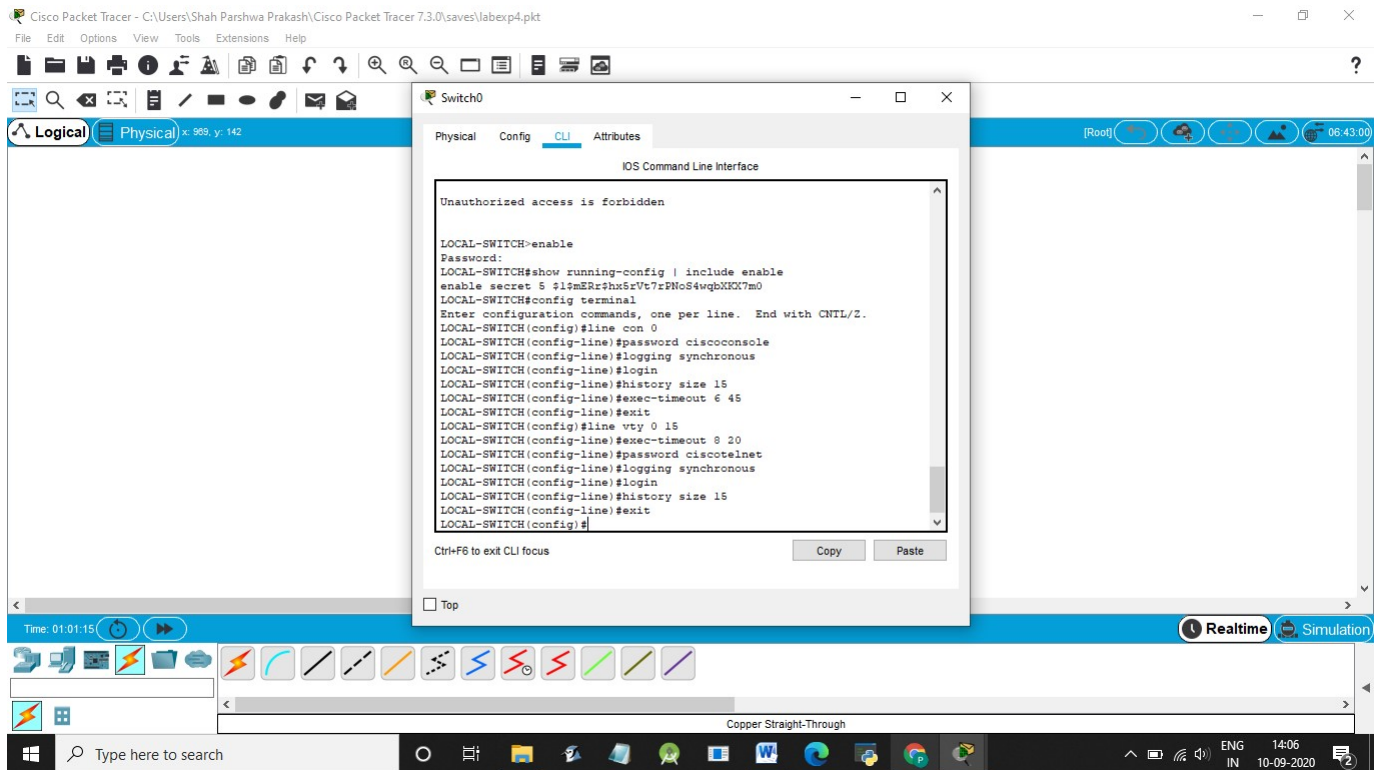
- Login enabled
- Password : whatever you like
- History size : 15 commands
- Timeout : 6'45"
- Synchronous logging



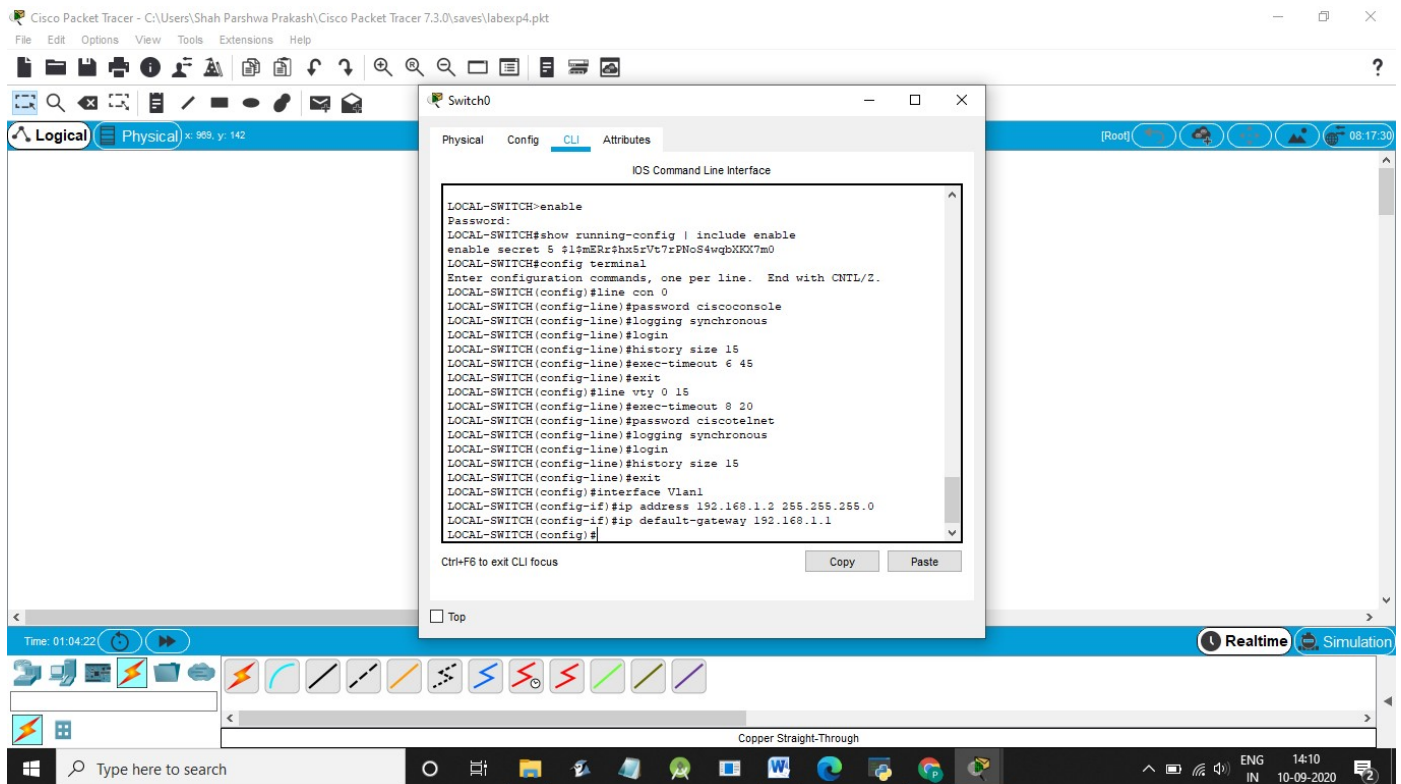


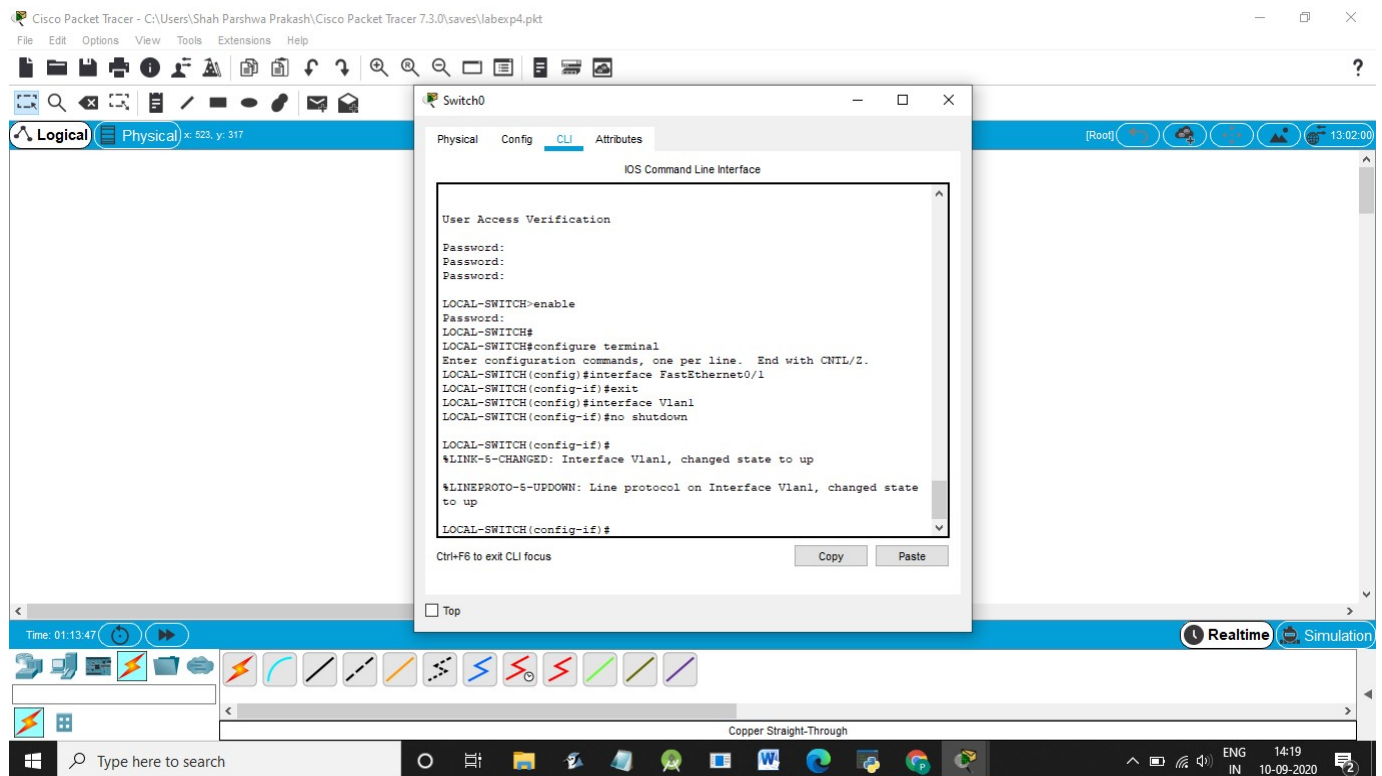
6. Configure TELNET access with the following settings :

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

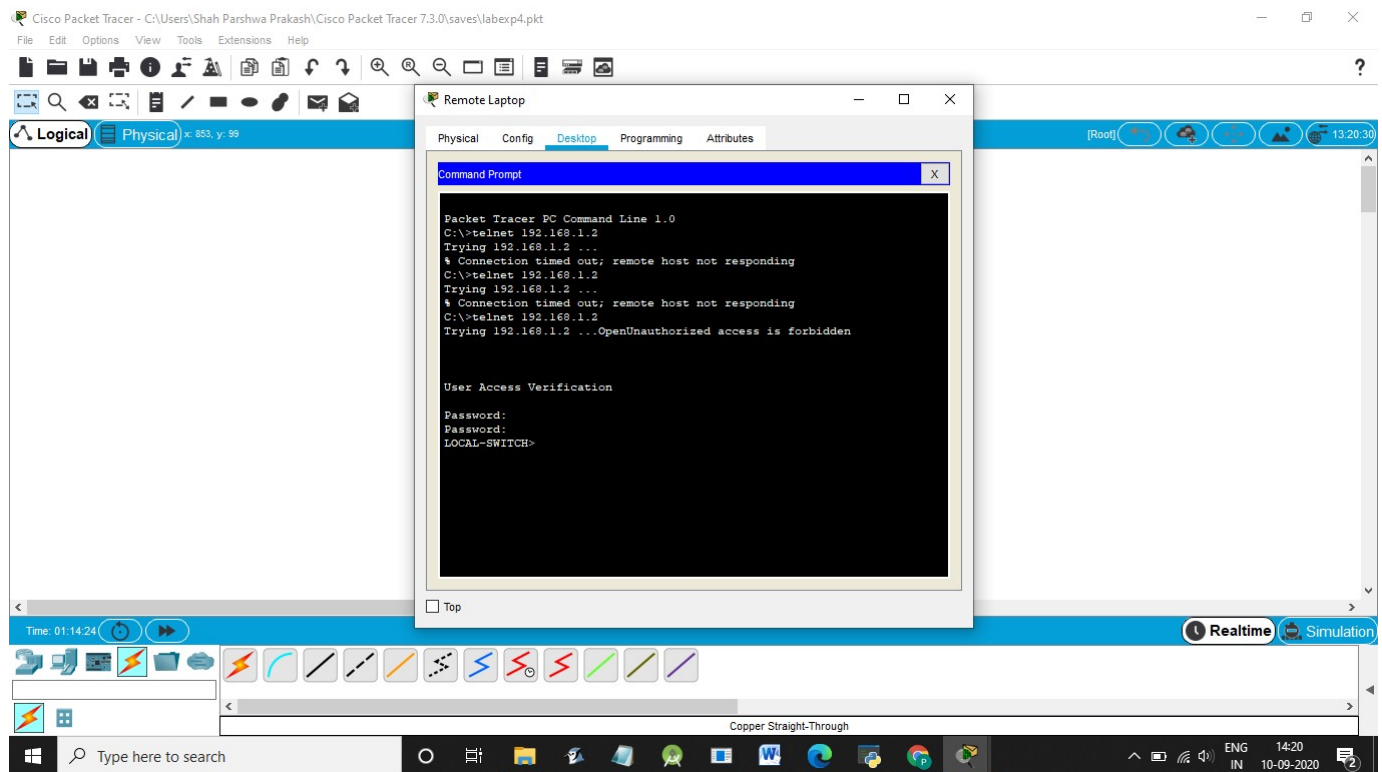


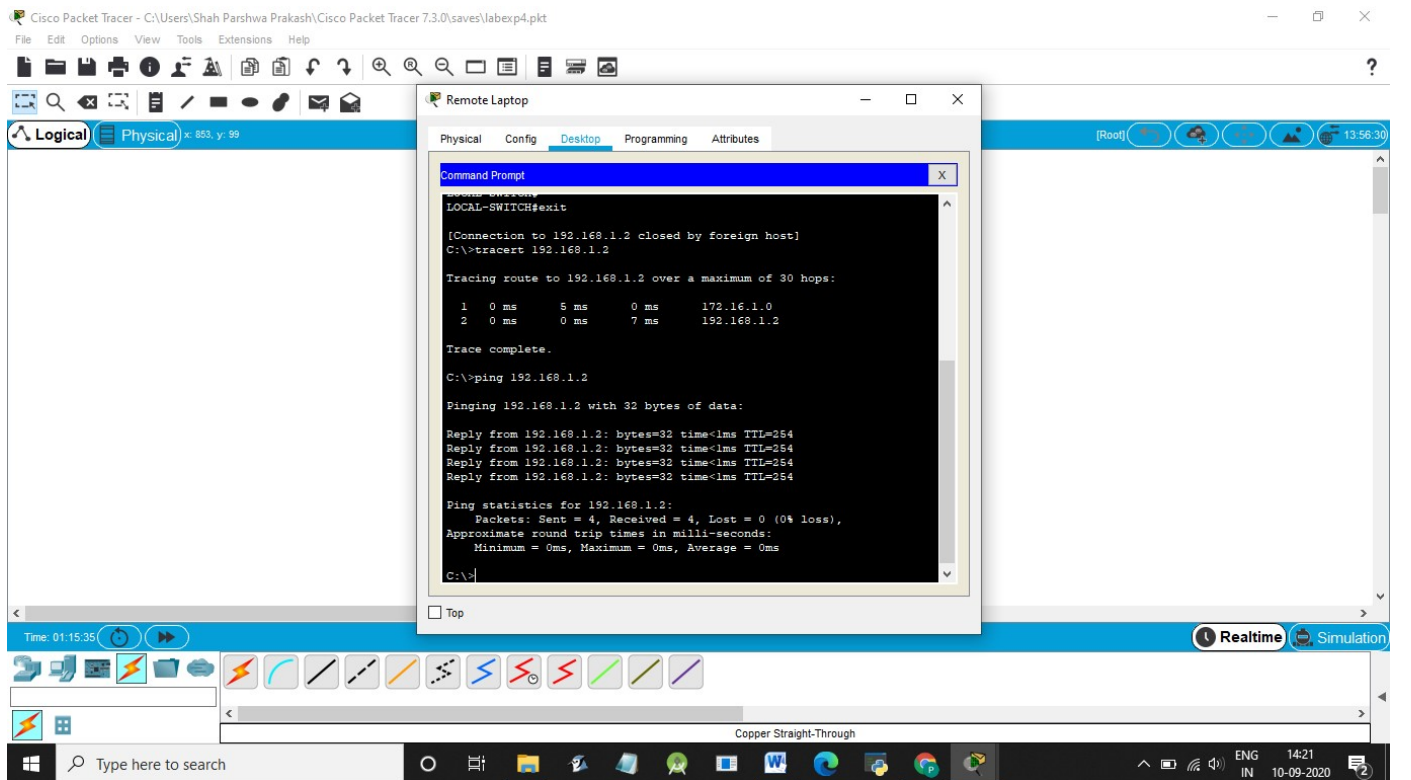
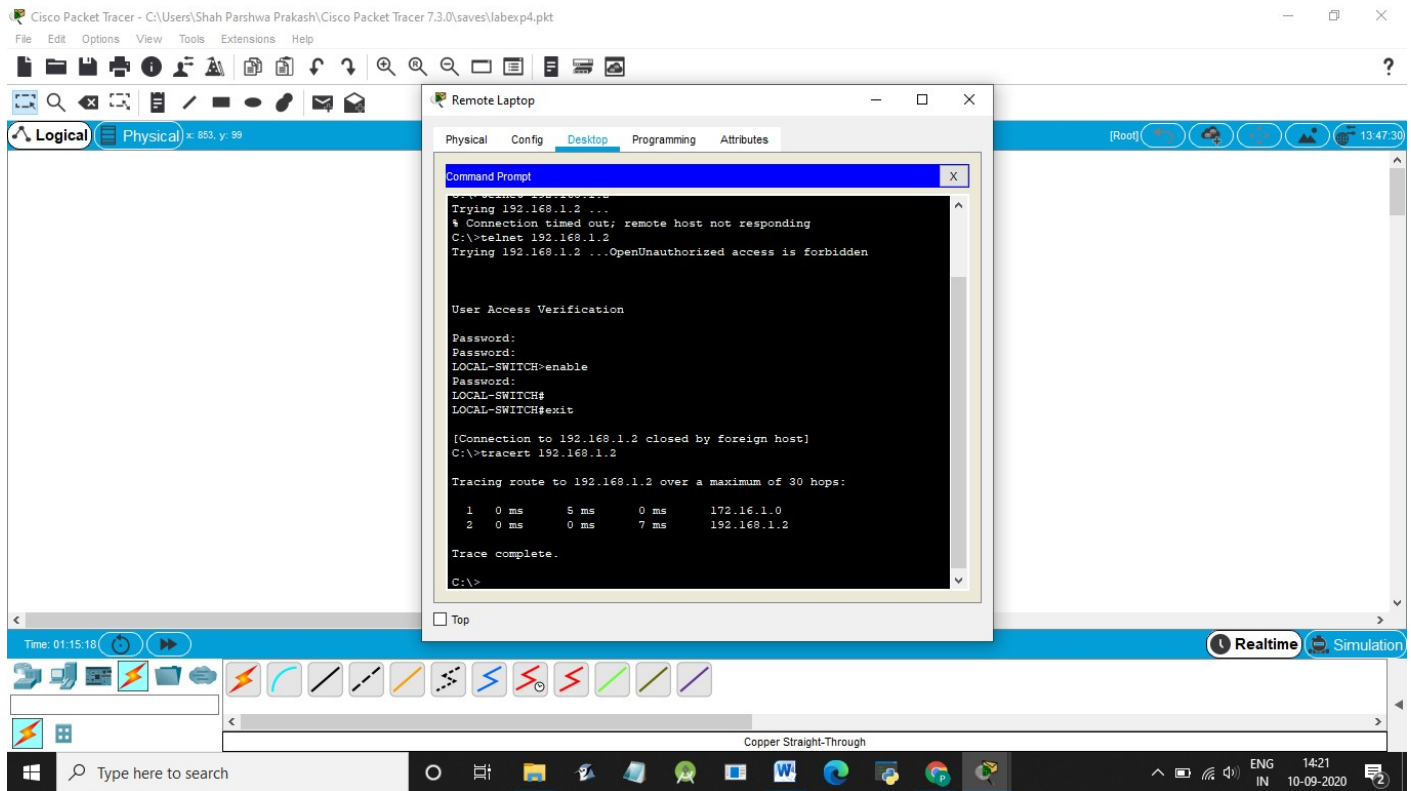
7. Configure the IP address of the switch as 192.168.1.2/24 and it's default gateway IP (192.168.1.1).





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





Conclusion:-

Hence, I understood the use of telnet to access a device remotely and also got to know various configurations in Cisco Packet Tracer.