**NAME: M.Sai Teja** **CSE – 3** **Roll No: 1601-20-733-167**

# EXPERIMENT NO- 04

**AIM**: Building a switch – based network / Configuration of Cisco Catalyst Switch 3560

**OBJECTIVE**: To demonstrate building a switch – based network / Configuration Cisco Catalyst Switch3560.

## ALGORITHM:

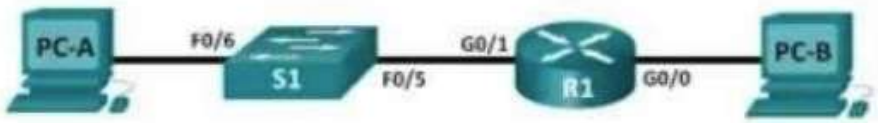
1. Start
2. Setup the Topology and initialize devices
3. Configure Devices and verify connectivity
4. Display Device information
5. End

## DESCRIPTION AND EXECUTION:

Resources: 1 Switch, 2 PCs, 1 Router.

The devices are connected in a star topology:

**Topology**



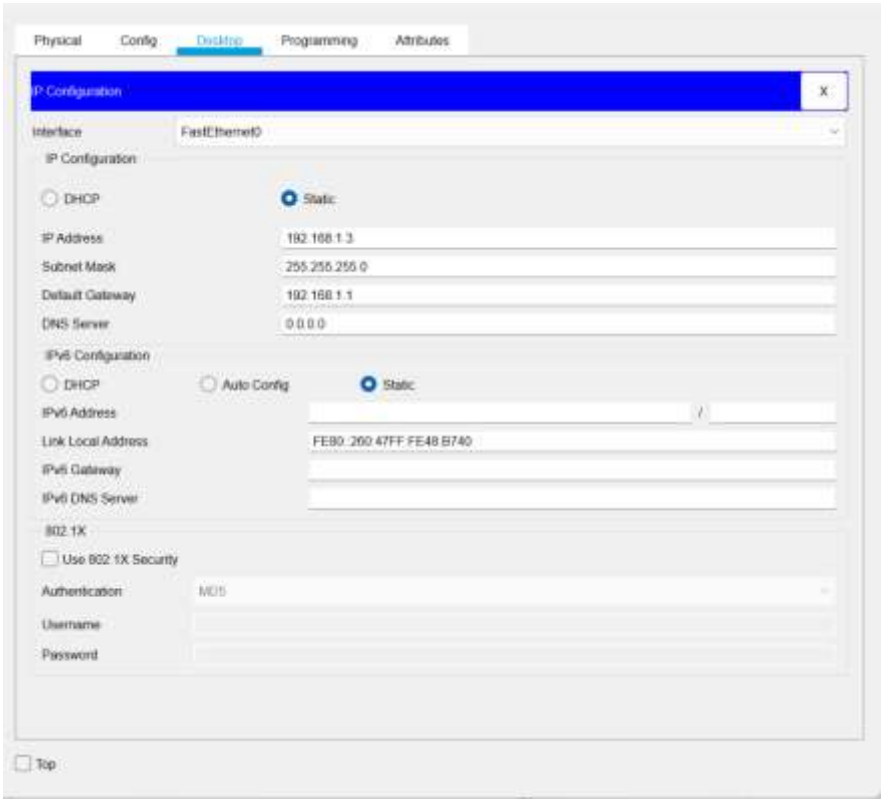

**Addressing Table**

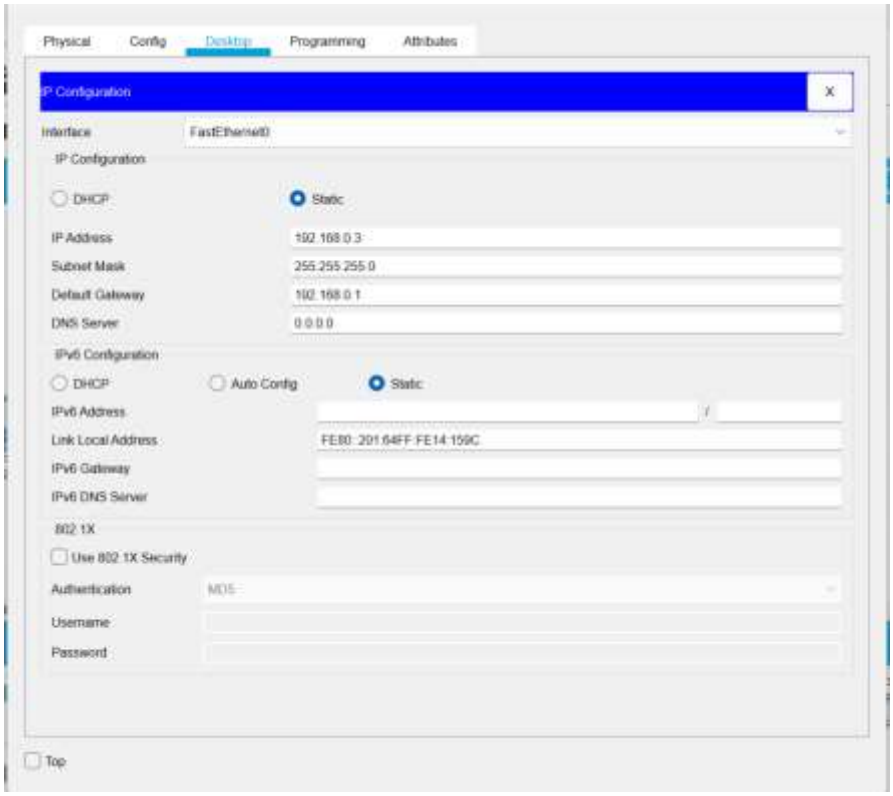
| Device | Interface | IP Address | Subnet Mask | Default Gateway |
|---|---|---|---|---|
| R1 | G0/0 | 192.168.0.1 | 255.255.255.0 | N/A |
| | G0/1 | 192.168.1.1 | 255.255.255.0 | N/A |
| S1 | VLAN 1 | N/A | N/A | N/A |
| PC-A | NIC | 192.168.1.3 | 255.255.255.0 | 192.168.1.1 |
| PC-B | NIC | 192.168.0.3 | 255.255.255.0 | 192.168.0.1 |

Laying out required devices & connecting the devices using cables:

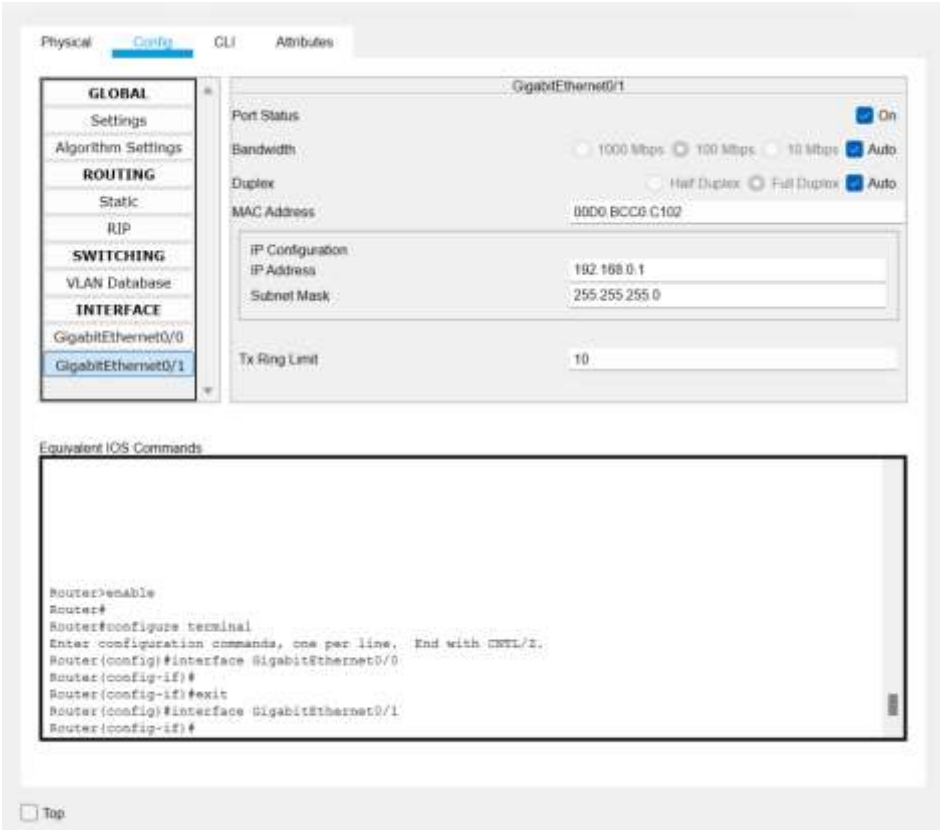
**NAME: M.Sai Teja** **CSE – 3** **Roll No: 1601-20-733-167**


Configuring PC-A and PC-B:

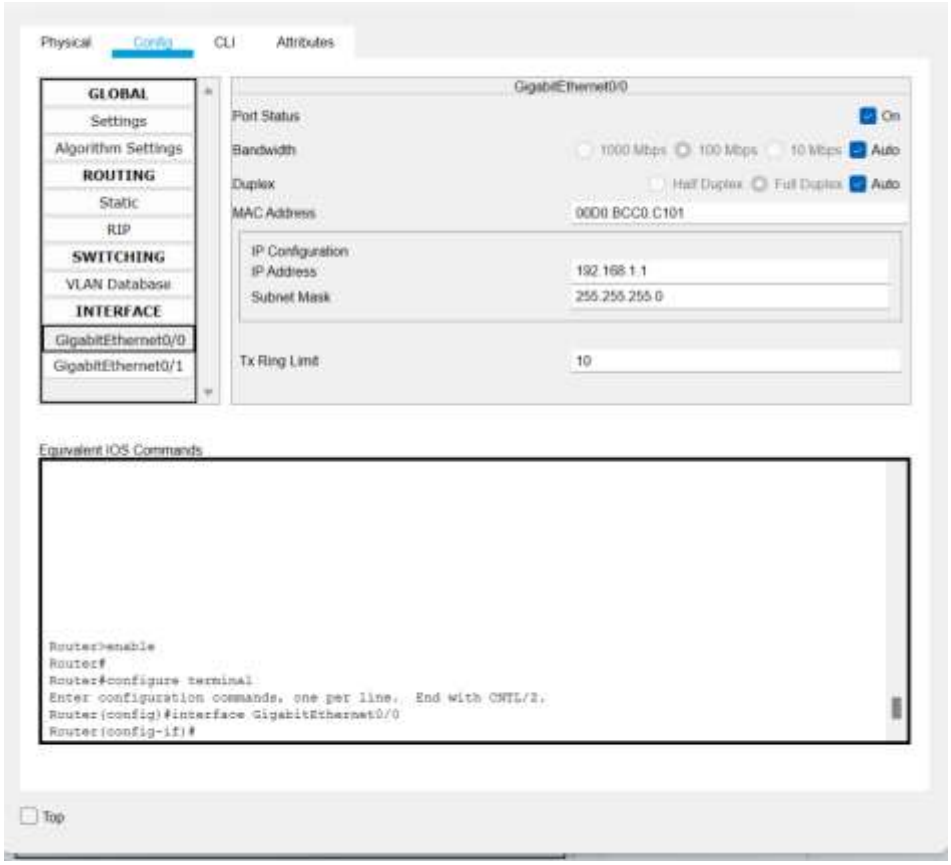


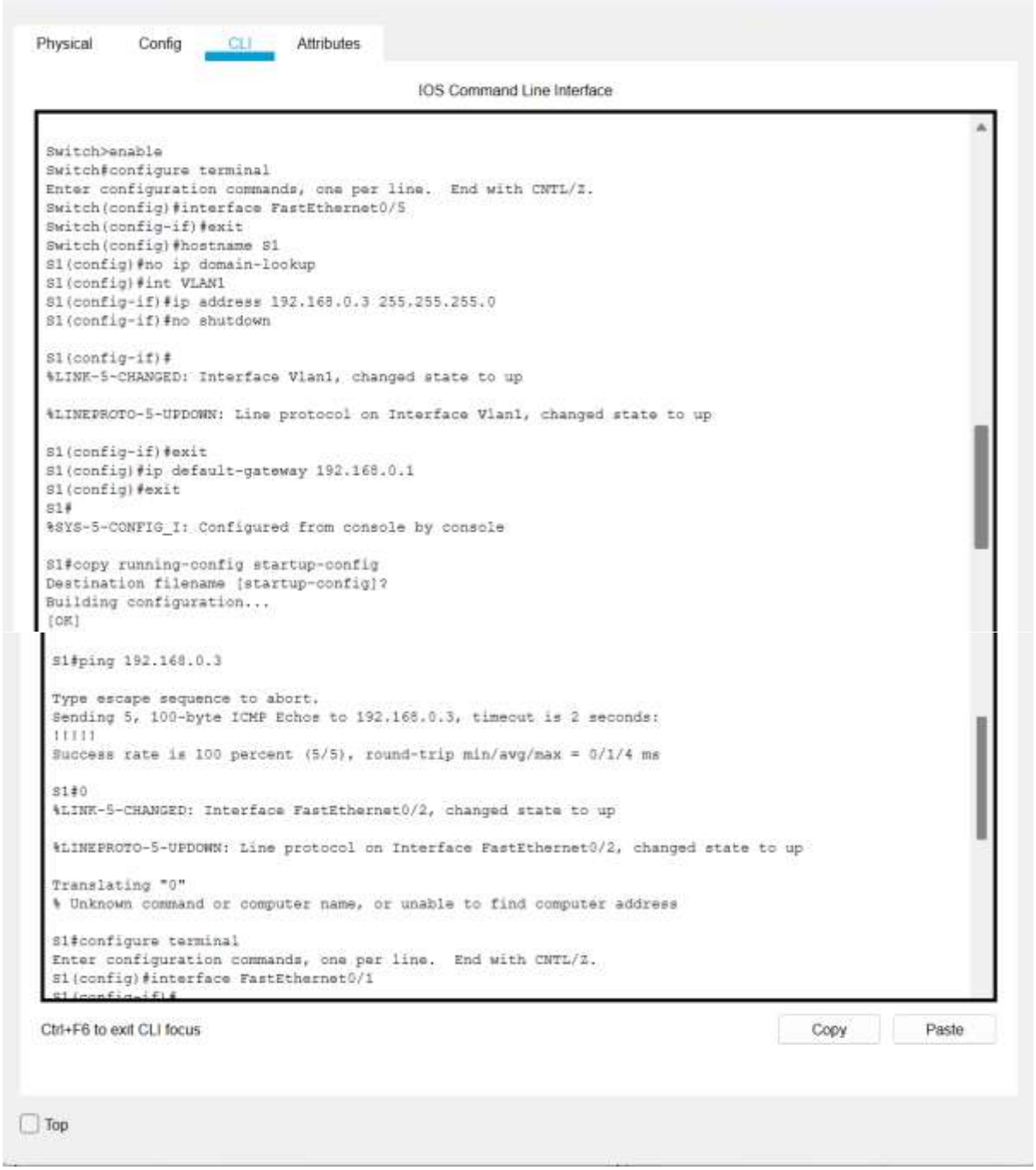



Configuring Switch S1:

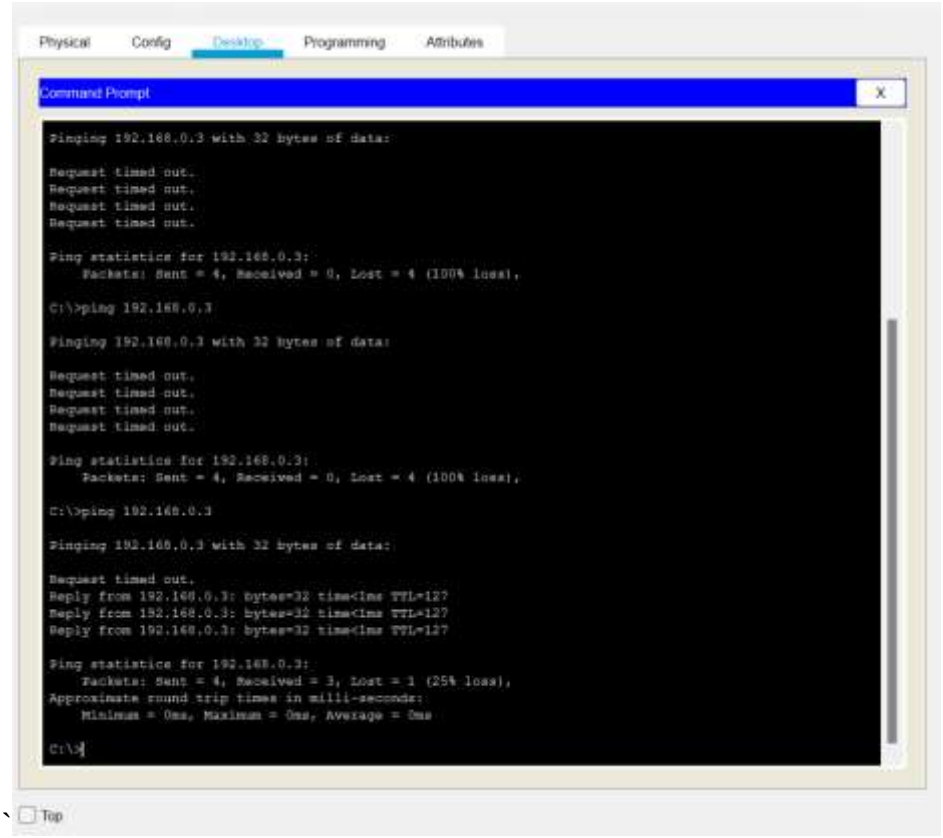


**NAME: M.Sai Teja** **CSE – 3** **Roll No: 1601-20-733-167**




Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface FastEthernet0/5
Switch(config-if)#exit
Switch(config)#hostname S1
S1(config)#no ip domain-lookup
S1(config)#int VLAN1
S1(config-if)#ip address 192.168.0.3 255.255.255.0
S1(config-if)#no shutdown
S1(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
S1(config-if)#exit
S1(config)#ip default-gateway 192.168.0.1
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
S1#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
S1#ping 192.168.0.3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.0.3, timecut is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/1/4 ms
S1#0
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
Translating "0"
% Unknown command or computer name, or unable to find computer address
S1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#interface FastEthernet0/1
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

Checking ping from PC-A to PC-B:




RESULTS: After the configuration and connection of all devices, the ping is successful from PC-A to PC-B.