Name: V. Sahith Reddy

Roll no: 2420030766

Section: S2 -A

Task 3

Configuration of basic switch setup using Huawei/Cisco network switch using cisco packet tracer.

Procedure:

Step 1: setting up the network Topology

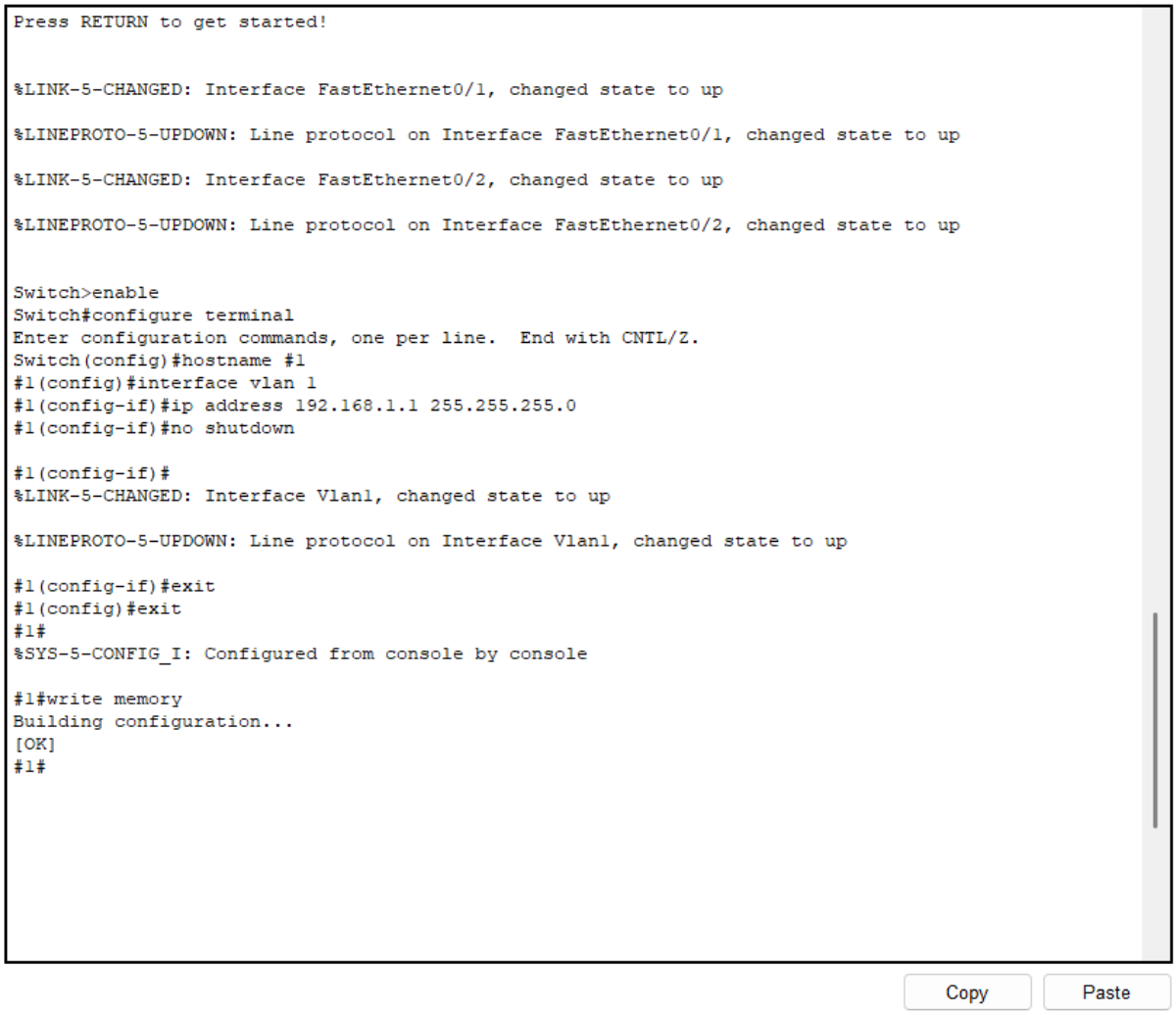
1. Open cisco packet tracer
2. Add devices:
   - Drag and drop a cisco switch
   - Drag and drop two PC's example PC0, PC1
3. Connect devices:
   - Use the connections option to select the copper straight through cable
   - Connect each PC to the switch using the FastEthernet ports (e.g., PC0 – FastEthernet0/1, PC1- FastEthernet0/2)

Step 2: Configuring the Switch:

1. Open the CLI of the search:
   - Click on the switch and go to the CLI tab.
   - Enter the following commands:

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch (config) #hostname #1
#1 (config)#interface vlan 1
#1 (config-if)# ip address 192.168.1.1 255.255.255.0
```

#1(config-if)#no shutdown
#1(config-if)#
LINK-5-CHANGED: Interface Vlan1, changed state to up
LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
#1 (config-if)#exit
#1 (config)#exit
#1#
\SYS-5-CONFIG_I: Configured from console by console
#1#write memory
Building configuration...
[OK]
#1#



Step 3: Configuring the PC's

1. Assign IP address to PCs:
   - Click on each PC and got to the desktop tab
   - Open the IP configuration and assign the IP address within the same subnet as the switches VLAN1 interface.
     For example:
   - PC0 IP address: 192.168.1.2, Subnet Mask: 255.255.255.0
   - PC1 IP address: 192.168.1.3, Subnet Maks: 255.255.255.0

Step 4: Testing connectivity

1. **Ping between PCs:**
   - Open the command prompt on one of the PCs
   - Use the ping command to check connectivity to the other PC(e.g Ping 192.168.1.3)