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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 switch:
 - 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#
```

```
Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

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#
```

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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.

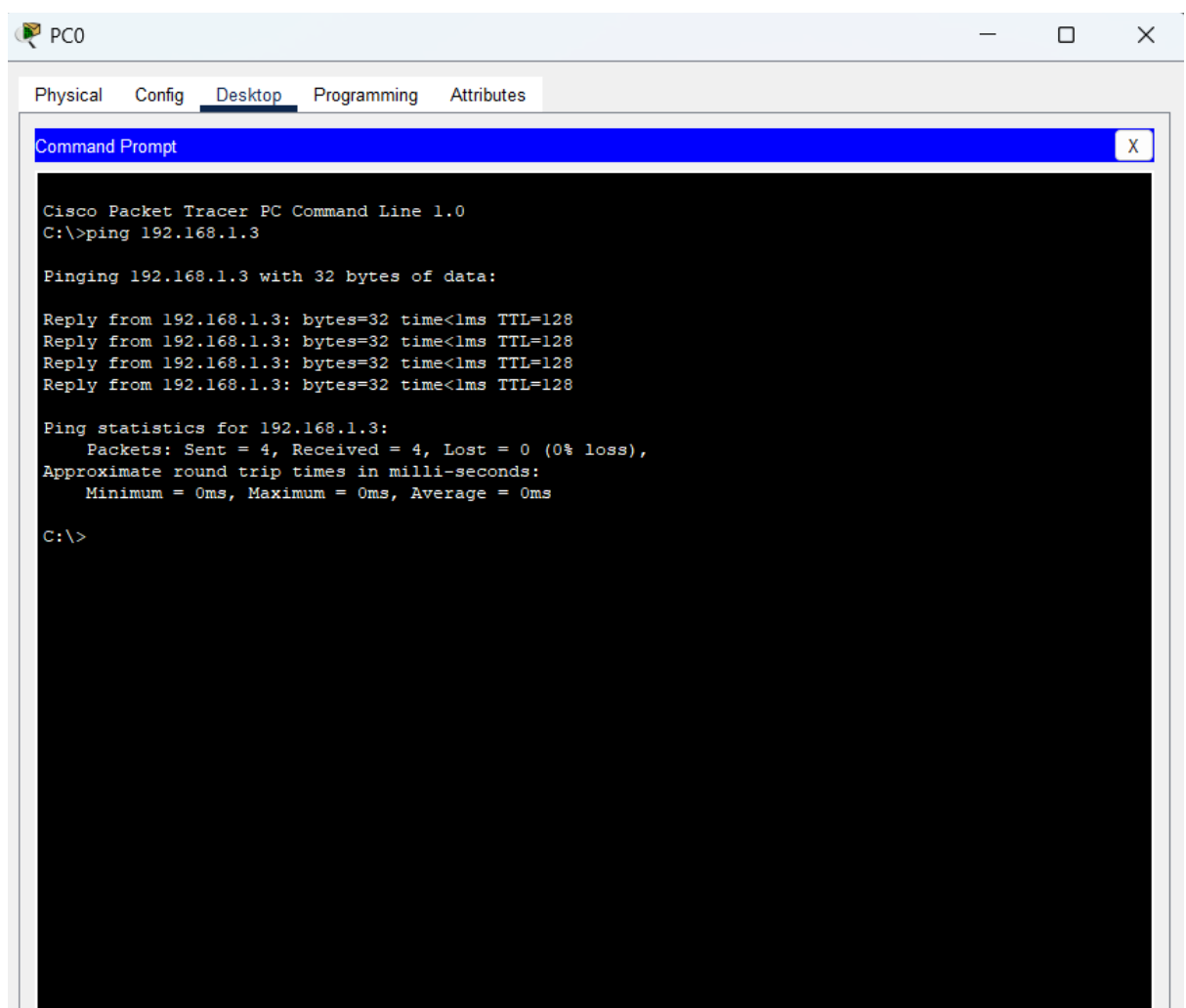
For example:

- 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)



The screenshot shows a window titled 'PC0' with tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The command prompt shows the output of a ping command from PC0 to PC1 (192.168.1.3). The output indicates that the ping was successful with 0% loss.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

