EX.NO: 6
08/08/25

DESIGN A SIMPLE TOPOLOGY AND CONFIGURE WITH ONE ROUTER, TWO SWITCHES AND PCS USING CISCO PACKET TRACER.

AIM:

To design a simple topology and configure with one router, two switches and PCs using cisco packet Tracer.

PROCEDURE:

Step 1: open cisco packet Tracer

⇒ Launch cisco packet Tracer, choose a blank workspace

Step 2: Add Devices

⇒ From Routers section, drag 1 Router to the workspace.

⇒ From the switches section, drag 2 switches.

⇒ From the end Devices section, drag 6 P/s (3 for each switch).

Step 3: Connect Devices.

⇒ Use the copper straight-Through cable for: Pc ⇒ switch connection, switch-Router connection.

Step 4: Assign IP addresses.

Step 5: click Pc ⇒ Desktop tab ⇒ IP configuration. Enter IP Address, subnet Mask and Default Gateway from the table above.

Step 6: Configure Router

⇒ click Router ⇒ CLI tab.

⇒ Enter configuration mode and assign IPs.

Router > enable

Router (configure) # configure terminal

Router (config-if) # interface fastethernet 0/0

Router (config-if) # ip address
192.168.1.1.255.255.255.0

Router (config-if) # no shutdown

exit

Router (config-if) # interface fastethernet 0/1

Router (config-if) # ip address
192.168.2.1,255.255.255.0

Router (config-if) # no shutdown

exit

end

Step 7: Test communication

⇒ Goto PC0 → Desktop → command prompt

⇒ Ping PC7

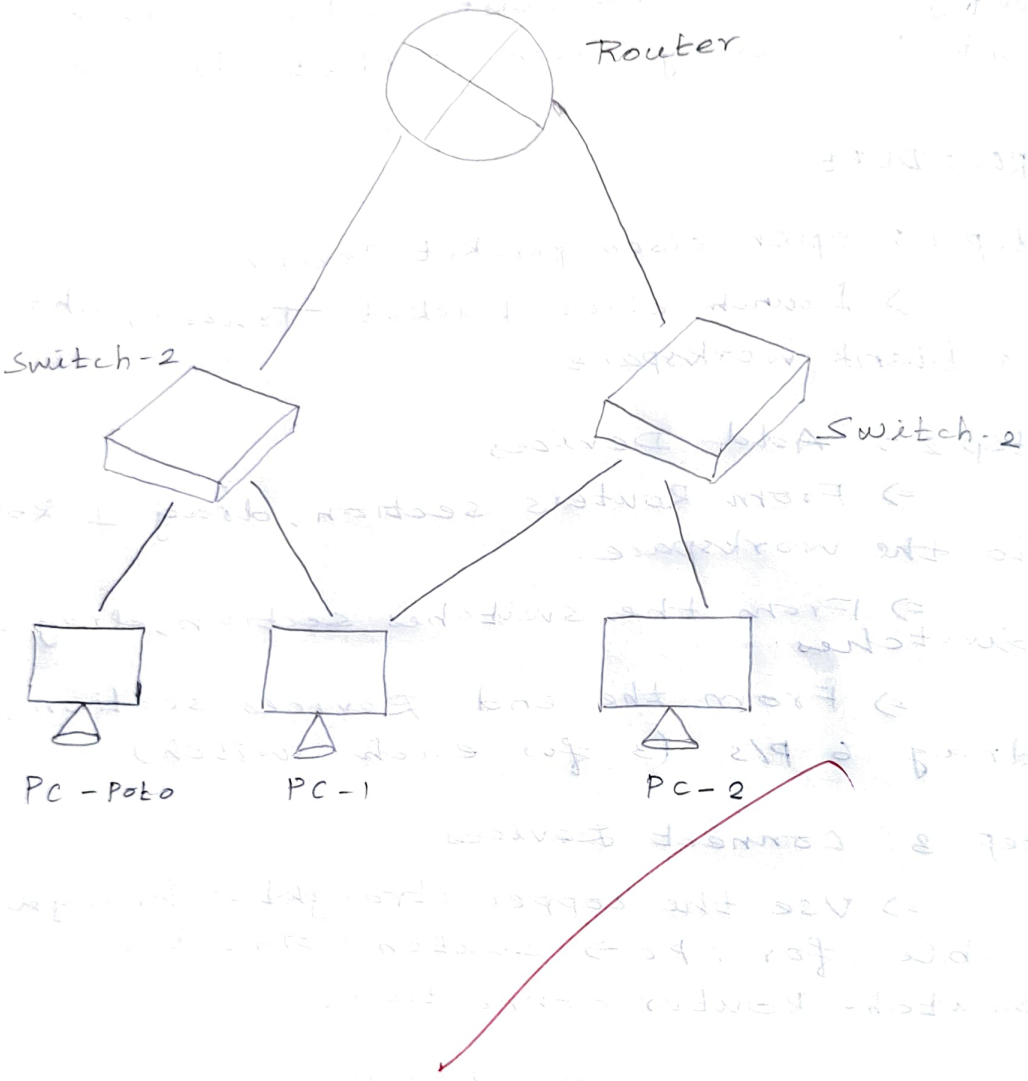
ping 192.168.2.2

If everything is correct, you should get reply messages.

Step 8: Move the packets and test the communication.

Result:

Thus designed a simple topology and configure with one router, two switches and PCs using CISCO packet tracer.


Router
Switch-2
Switch-2
PC - Poto
PC-1
PC-2