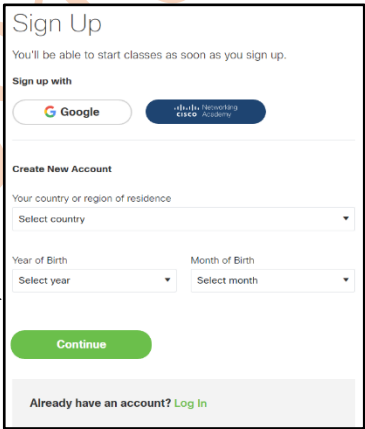## CAP 276: DATA COMMUNICATION AND NETWORKING LABORATORY
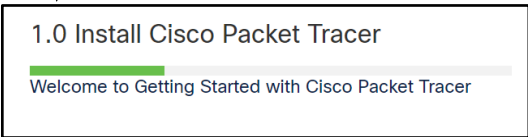
PRACTICAL_CLASS_1.

❖HOW TO DOWNLOAD CISCO PACKET TRACER:

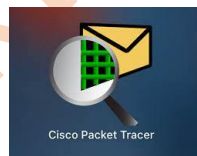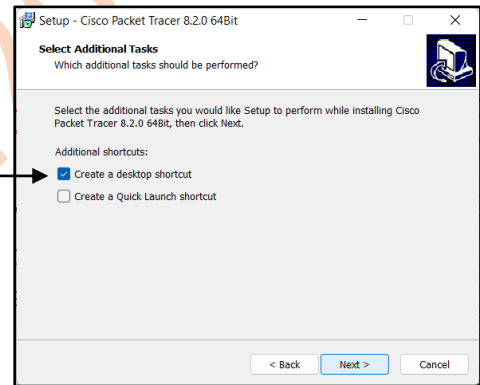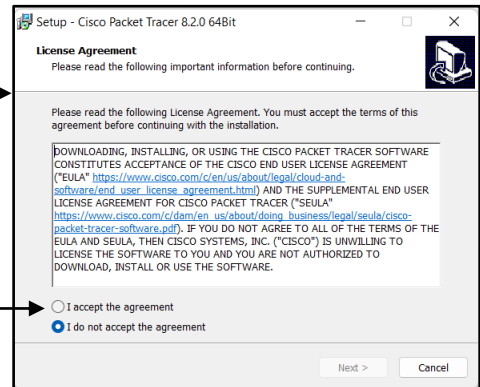### PROCESS: -

☞ Open any browser and search official website of Netacad.

☞ Click on first link "cisco packet tracer-Networking simulation Tool.

☞ Then scroll down and click on view course.

☞ Click on Skills For All.

☞ Click on Get Started.

☞ Then a dialog box open.

☞ Create an account or login with your Gmail account.

☞ Click on Term & condition.

☞ Click on download and use Cisco Packet Tracer.

☞ Click on view in Fullscreen.

☞ Then a dialog box open.

☞ Click on install Cisco Packet Tracer.

☞ Then scroll down.

☞ Click on Highlighted download 2nd link.

☞ Then will redirect to 2nd page.

☞ Then scroll down.

☞ Click on download.

❖ HOW TO INSTALL CISCO PACKET TRACER:

PROCESS: -

☞ Double click on downloaded file.

☞ Then a dialog box open. ─────────────

☞ Check "I accept the agreement. ──────

☞ Click on Next button.

☞ Choose the installing location as you need.

☞ Click on next button.

☞ Check the box "Create a desktop shortcut. ──

☞ Click on Next button.

☞ Again, click on install button.

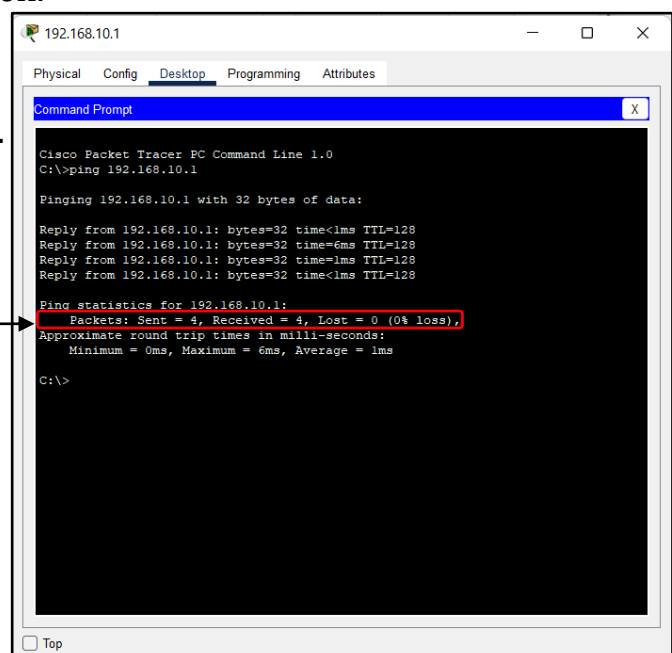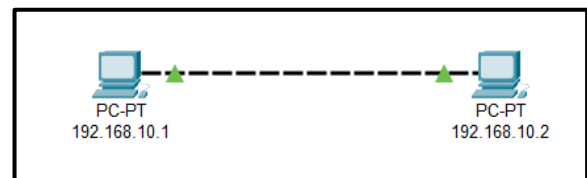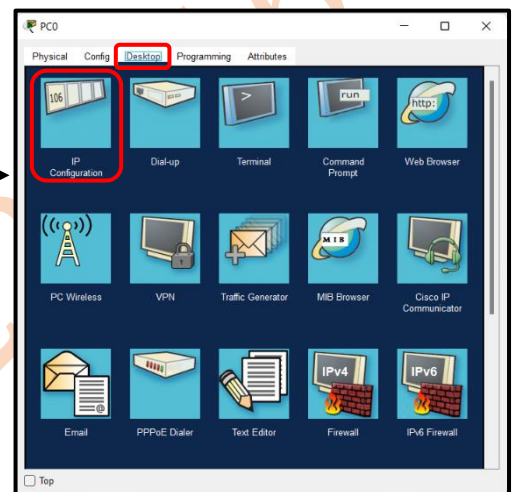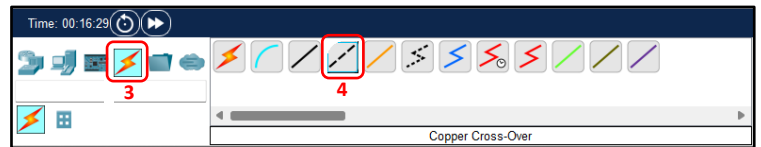☞ Again, click on Finish button.

☞ Installed Cisco Packet Tracer. ──────

PRACTICAL_CLASS_2.

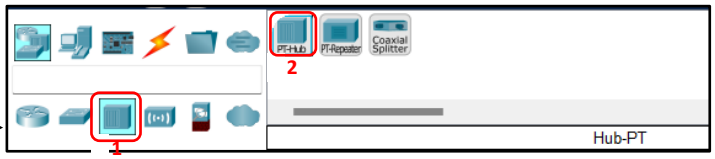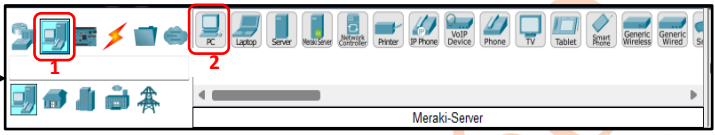## ❖ HOW TO CONNECT PEAR TO PEAR PC IN CISCO PACKET TRACER:

PROCESS: -

☞ Open Cisco Packet Tracer.
☞ Select computer icon.
☞ Again, select any pc as you need.
☞ Click on working area.
☞ Click on connection wire.
☞ Select Copper Cross-Over wire.
☞ Click on 1st PC then opened properties box.
☞ Click on fast Ethernet0.
☞ Draw the mouse pointer and click on 2nd pc .
☞ Again, opened properties box
☞ Then click on fast ethernet0.
☞ Click on 1st PC then a dialog box open.
☞ Click on Desktop tab.
☞ Click on IP Configuration.
☞ Select Static radio button.
☞ Enter IP address.
☞ Press Enter key and close window.
☞ Again, click on 2nd PC then a dialog box open.
☞ Click on Desktop tab.
☞ Click on IP Configuration.
☞ Select Static radio button.
☞ Enter another IP address.
☞ Press Enter key and close window.
☞ Rename both PC name with IP address.
☞ Click on 1st PC then a dialog box open.
☞ Click on Desktop tab.
☞ Click on Command Prompt.
☞ Type "ping space 2nd PC IP address.
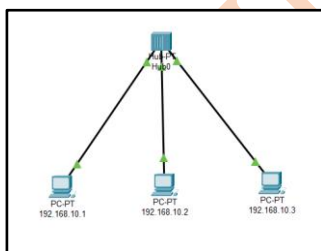☞ Press Enter key.
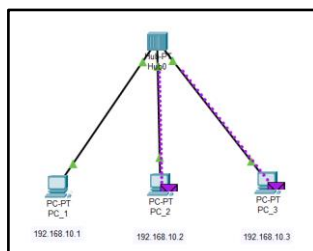☞ Successful connect and sent.

PRACTICAL_CLASS_3.

❖ How to connect Hub to more than one PC.

PROCESS: -
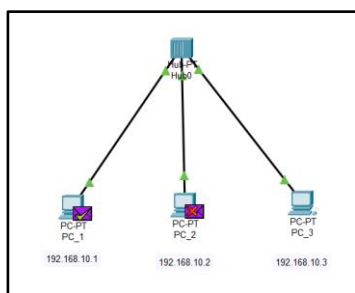
☞ Open Cisco Packet Tracer.

☞ Click on Hubs option.

☞ Select Hub- PT.

☞ Draw the working blank area.

☞ Again, click on PC icons.

☞ Select PC as you need.

☞ Draw the PC in working area.

☞ Click on connection wire.

☞ Select Automatically Choose Connection Type wire.

☞ Select wire. (Ctrl + left click).

☞ Click on Hub.

☞ And click on 1ⁿᵈ pc .

☞ Again, click on Hub.

☞ And click on 2ⁿᵈ PC.

☞ Again, click on Hub.

☞ And click on 3ʳᵈ PC.

☞ Generate IP address in PC. (See process for generate IP address 1st project).

☞ Select PDU message box.

☞ Click on any one PC.

☞ Again, click on another PC. (For connect two or more PC in Single HUB).

☞ click on Simulation icon.

☞ Then a dialog box open.

☞ Click on Play button.
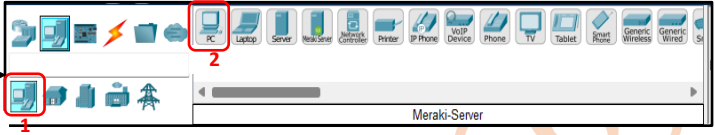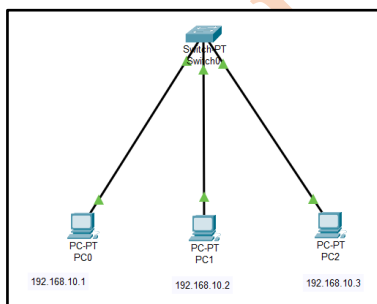
Before send PDU.

After send PDU PC_1 to PC_3

Finally Result sent PC_1 to PC_3
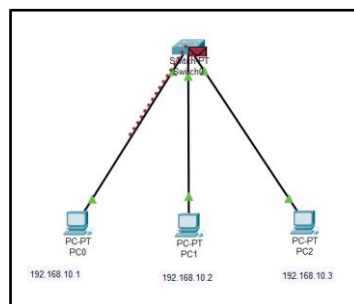
PRACTICAL_CLASS_4.

❖ **How to connect Switch to more than one PC.**

PROCESS: -
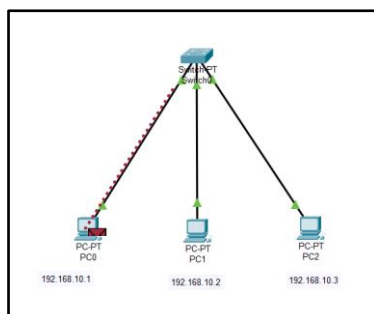
☞ Open the Cisco Packet Tracer.
☞ Click on Switch option.
☞ Select Switch- PT.
☞ Draw the working blank area.
☞ Again, click on PC icons.
☞ Select PC as you need.
☞ Draw the PC in working area.
☞ Click on connection wire.
☞ Select Automatically Choose Connection Type wire.
☞ Click wire. (Ctrl + left click).
☞ Click on Switch.
☞ And click on 1nd pc .
☞ Again, click on Switch.
☞ And click on 2nd PC.
☞ Again, click on Switch.
☞ And click on 3rd PC.
☞ Generate IP address in PC. (See process for generate IP address 1st project).
☞ Select PDU message box.
☞ Click on any one PC.
☞ Again, click on another PC. (For connect two or more PC in Single Switch).
☞ Click on Simulation icon.
☞ Then a dialog box open.
☞ Click on Play button.

Before send PDU.

After send PDU PC_1 to PC_3

Finally Result sent PC_1 to PC_3