

Aim:
To study packet tracer tool installation and user interface overview.

a, Cisco Packet Tracer is successfully installed.
b, Analyse behaviour of network devices using Cisco packet tracer simulator.

1. from network component box. click and drag and drop the below components.

- a, 4 generic PCs and one HUB
- b, 4 generic PCs and one Switch.

2. click on connections -

a, click on copper straight-through

Cables.

b, select one of the PC and connect.

it to the hub using the cable. The link LED should glow in green indicating that the link is up. Simultaneously connect remaining 3 PCs to the HUB.

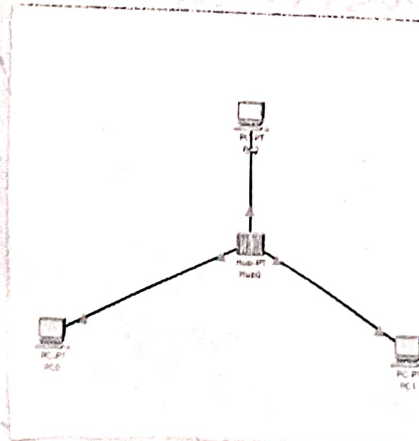
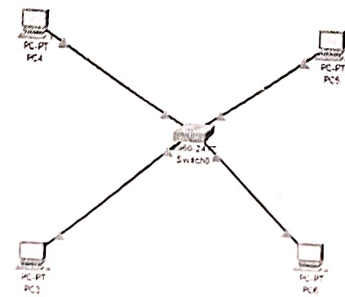
c, similarly connect 4 PCs to the switch using copper straight-through

Cable.

b, click on PCs connected to the hub go to desktops tab and click on 2 IP config.

and enter an IP address and submit mask, these are the default gateway and DNS server info. is not needed as there are only two end devices in this network.

4. observe flow of pdu from source pc to destination pc by seeing realtime mode of simulation.
5. Repeat Step #3 to step #5 for pc: 5 connected to switch
6. observe how hub and switch are forwarding pdu and write your observation and conclusion about the behaviours of switch and hub



Student observation:

1. from your observation write down the behaviour of switch and Hub in terms of forwarding the packet received by them.

A switch forwards packet only to the specific devices based on mac address, while a hub broadcasts packet to all the connected devices.

2. Find out the network topology implemented in your college and draw and label that topology in your observation book.

The network topology commonly used in colleges is star topology, where all devices are connected to a central switch or hub.

~~Result:~~

The packet tracer tool is installed and the overview of user interface layer is shaded.