EX NO:5B   **DATE:20.08.24**

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DESIGN A SIMPLE TOPOLOGY USING CISCO PACKET TRACER

AIM:

To design the simple topology using cisco packet tracer with th components such as PCs,

Hub,switches,router etc,.

a)To connect 4 generic PCs and one HUB

b)To connect 4 generic PCs and one switch

c)To connect 4 generic PCs with a switch and 4 generic PCs with another switch and then connect both the PCs

INTRODUCTION:

A simulator, as the name suggests, simulates network devices and its environment. Packet

Tracer is an exciting network design, simulation and modelling tool.

1. It allows you to model complex systems without the need for dedicated equipment.

2. It helps you to practice your network configuration and troubleshooting skills via

computer or an Android or iOS based mobile device.

3. It is available for both the Linux and Windows desktop environments.

4. Protocols in Packet Tracer are coded to work and behave in the same way as they would

on real hardware.

PROCEDURE:

1. Click on Copper Straight-Through cable,

2. Select one of the PC and connect it to HUB using the cable. The link LED should glow

in green, indicating that the link is up. Similarly connect remaining 3 PCs to the

HUB

3. Click on the PCs connected to hub, go to the Desktop tab, click on IP Configuration, and

enter an IP address and subnet mask. Here, the default gateway and DNS server information

is not needed as there are only two end devices in the network.

Click on the PDU (message icon) from the common tool bar,

a. Drag and drop it on one of PC (source machine) and then drop it on another PC

(destination machine) connected to the HUB.
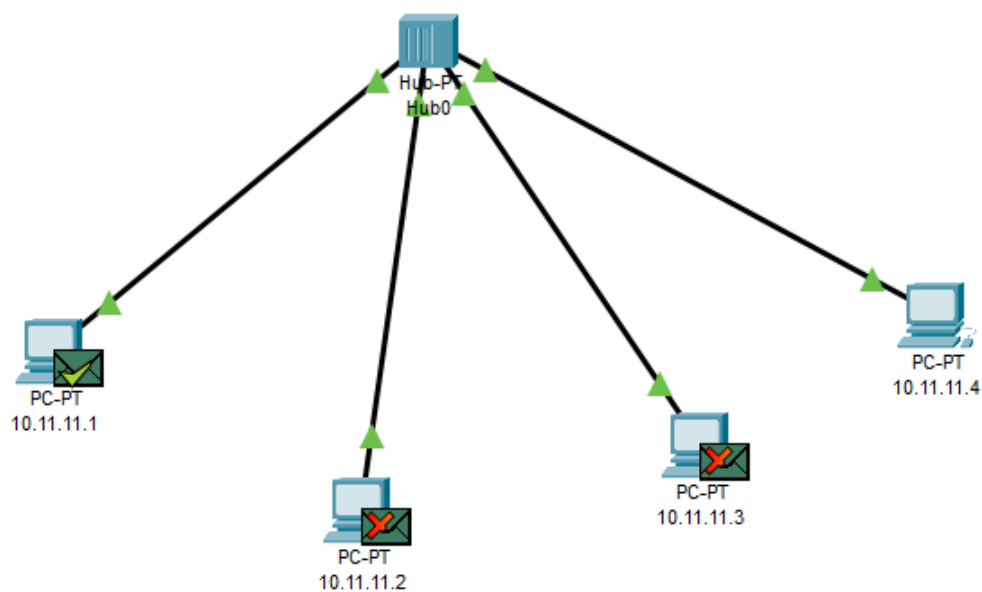
    4. Observe the flow of PDU from source PC to destination PC by selecting the Realtime
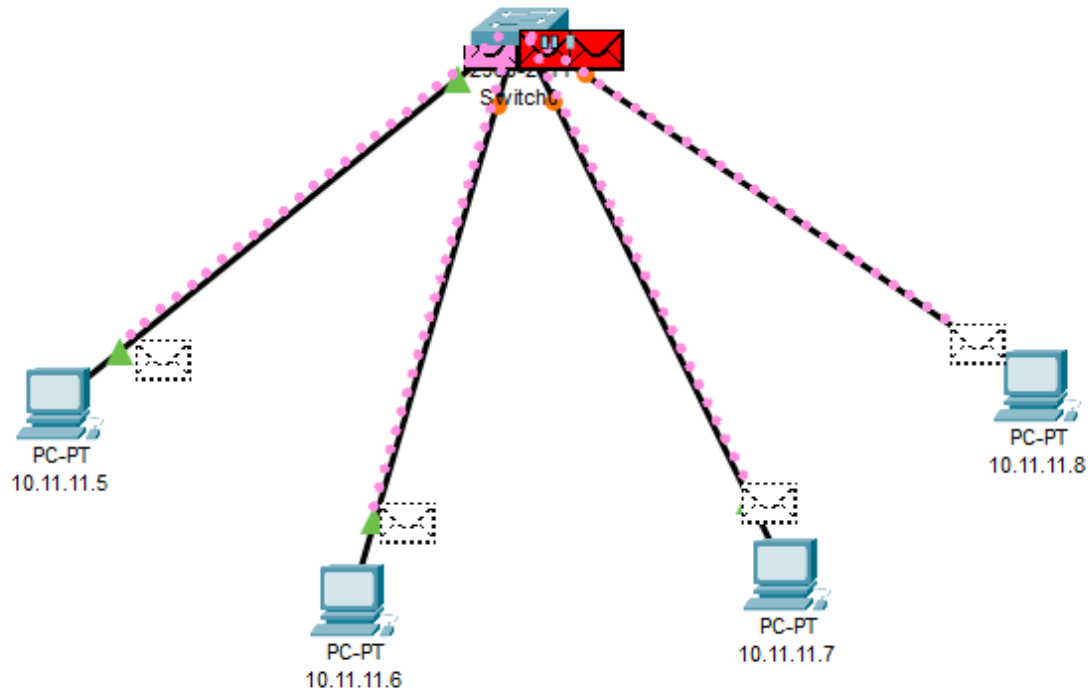mode

of simulation.

    5. Repeat step #3 to step #5 for the PCs connected to the switch.

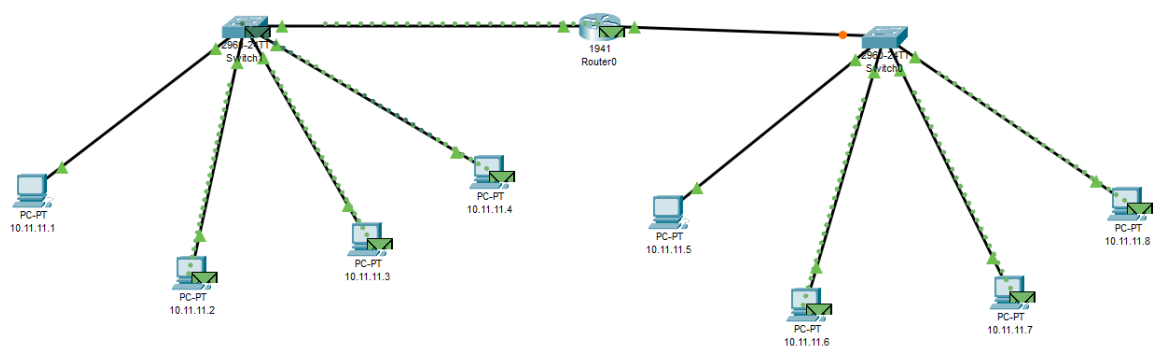**OUTPUT:**

a)4 generic PCs and one HUB

b)4 generic PCs and one switch

PC-PT
10.11.11.5

PC-PT
10.11.11.8

PC-PT
10.11.11.6

PC-PT
10.11.11.7

c)4 generic PCs with one switch and 4 generic PCs with another switch and then connect both the switches

PC-PT
10.11.11.1

PC-PT
10.11.11.4

PC-PT
10.11.11.3

PC-PT
10.11.11.2

PC-PT
10.11.11.5

PC-PT
10.11.11.8

PC-PT
10.11.11.6

PC-PT
10.11.11.7

RESULT:

Thus the simple topology is designed using CISCO PACKET TRACER with

PCs HUB,Switches and Routers etc.,