J.S Jaasiel
192524046 Experiment-6

IMPLEMENTATION OF FREE TOPOLOGY USING PACKET TRACER.

Aim: To implement a tree topology using packet tracer and hence to transmit data between the devices connected using free topology.

Software / Apparatus Required: packet tracer, End devices, Hubs, connectors.

Procedure:

Steps for building topology:

Step 1: Start packet tracer

Step 2: Choosing Devices and connections

Step 3: Building the topology - Adding Hosts

Step 4: Building the star topology - connecting the Hosts to Hubs.

Step 5: Connect PCs to Hub by first choosing connections.

Step 6: Building the tree topology - connecting the Hubs to Active Hub.

Step 7: Configuring IP Address and subnet Masks on the Hosts.

Step 8: Verifying connectivity in Real time mode

Result: Thus the tree topology is implemented

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Experiment -7

IMPLEMENTATION HYBRID TOPOLOGY (BUS and RING TOPOLOGY) using packet tracer.

Aim: To Implement a hybrid topology using packet tracer and hence to Transmit data between the devices connected using the topology.

Software / Apparatus Required: packet tracer, End devices, Hubs, connects.

Steps for building topologies:

Step 1: Start packet tracer

Step 2: choosing Devices and connections

Step 3: Building the topology - Adding Hosts.

Step 4: Building the Bus topology - connecting the Hosts to Hubs.

Step 5: Building the Ring topology - connecting the Hosts to Hubs

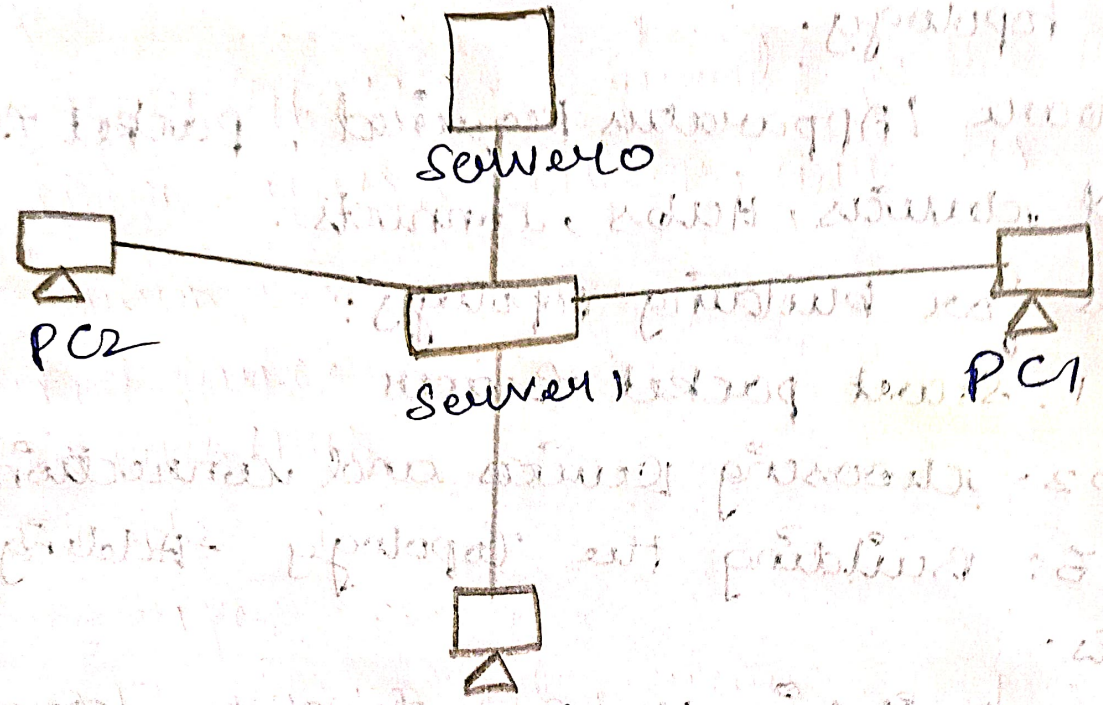
Step 5: connects PCs to Hub by first choosing connections

Step 6: Building the tree topology - connecting the Hubs to Active Hub.

Step 7: configuring IP Address and subnet Masks on the Hosts.

Step 8: verifying connectivity in Real Time Mode

Step 9: verifying connectivity in simulation Mode



Result: Thus the Hybrid topology is implemented with packet tracer simulation tool.

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Experiment - 8

DATA LINK LAYER TRAFFIC SIMULATION USING PACKET TRACER: ANALYSIS OF ARP

Aim: to implement Data link Layer traffic simulation using packet tracer Analysis of ARP.

Software/Apparatus Required: packet tracer/ End devices, switches, connectors.

Requirements –

1) End device
2) switch
3) cable

procedure:

1) open packet tracer
2) click on the list the available capture interface
3) choose the pcs, server and Hub
4) Later give connection from hub to the remaining pcs
5) Give ip address to the pcs with configuration
6) Simute the sourc and distination

Result: Thus the Data link layer traffic simulation using packet tracer Analysis of ARP is implemented.

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Experiment-9

DATA LINK LAYER TRAFFIC SIMULATION USING PACKET TRACER ANALYSIS OF CSMA/CD & CSMA/CA

AIM: to implement Data link Layer traffic simulation using packet tracer analysis of CSMA/CD & CSMA/CA

Software/Apparatus required: packet tracer / End devices, switches, connects.

Requirements:

1) End device
2) switch/Hub
3) cable

procedure:

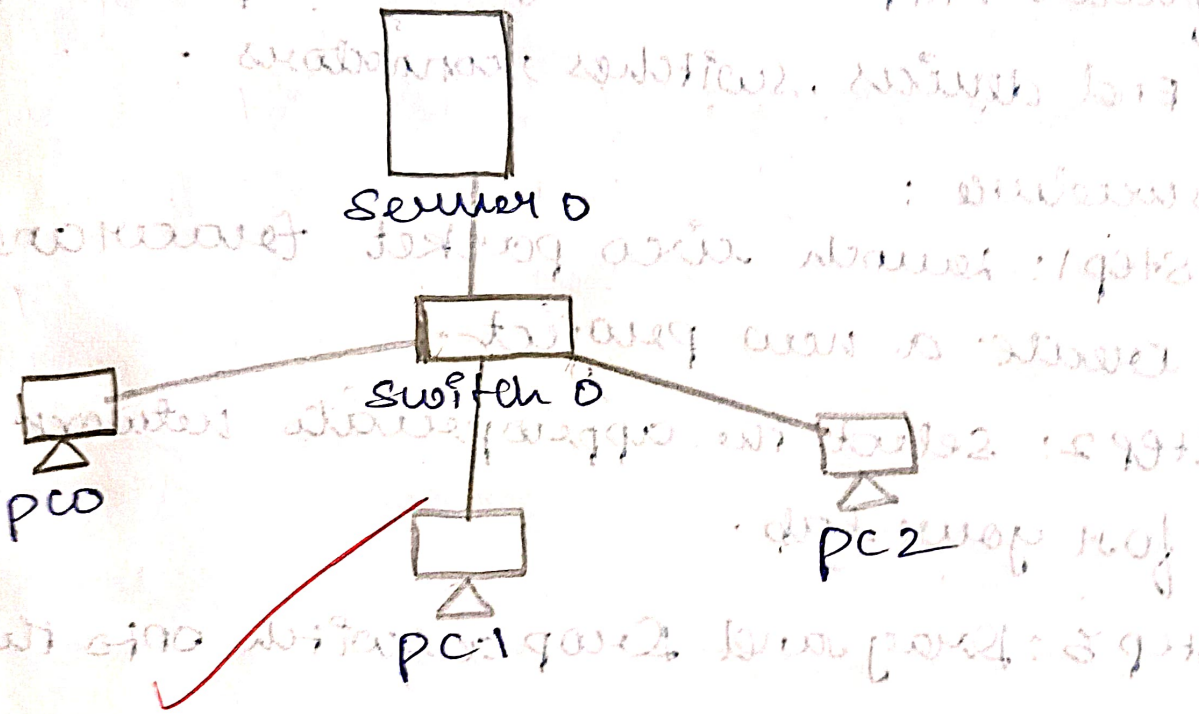
Step 1: click on end devices, select generic PC's drag and drop it on the window. click switch drag and drop it on the window.

Step 2: Select the Straight through cable and connect all end device switch.

Step 3: Now set the IP Address to Host A (192.168.1.1) in static Mode. And Host B (192.168.1.2) and Host C (192.168.1.3)

Step 4: To view the IP address, given ip config command in command prompt.

Step 5: Now display the packet transmission in simulation mode.



Result: Thus Data Link Layer traffic simulation using packet tracer Analysis of CSMA/CD & CSMA/CA is implemented

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192521042 Experiment - 10

MAKING COMPUTER LAB IN CISCO PACKET TRACER

Aim: Making computer lab in cisco packet tracer.

Software/Apparatus Required: packet tracer, End devices, switches, connections.

Procedure:

Step 1: Launch cisco packet tracer and create a new project.

Step 2: Select the appropriate network devices for your lab.

Step 3: Drag and Drop a switch onto the workspace area.

Step 4: connect computers to the switch by dragging and dropping them on the workspace area.

Step 5: Repeat step 4 to add more computers to the lab.

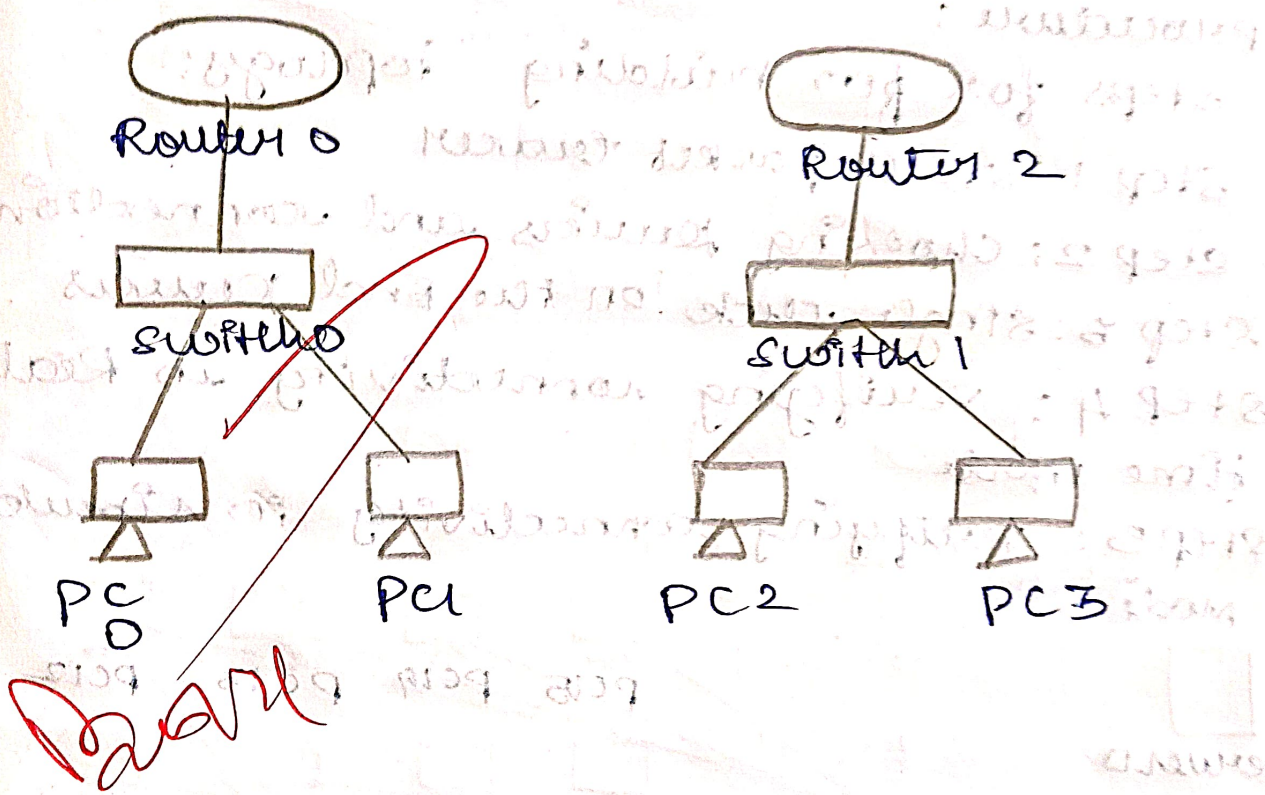
Step 6: connect the switch to router. Drag and Drop a router onto the workspace area and connect it to the switch using serial cable.

Step 7: configure IP address on the computers.

Step 8: configure IP addresses on the router interfaces.

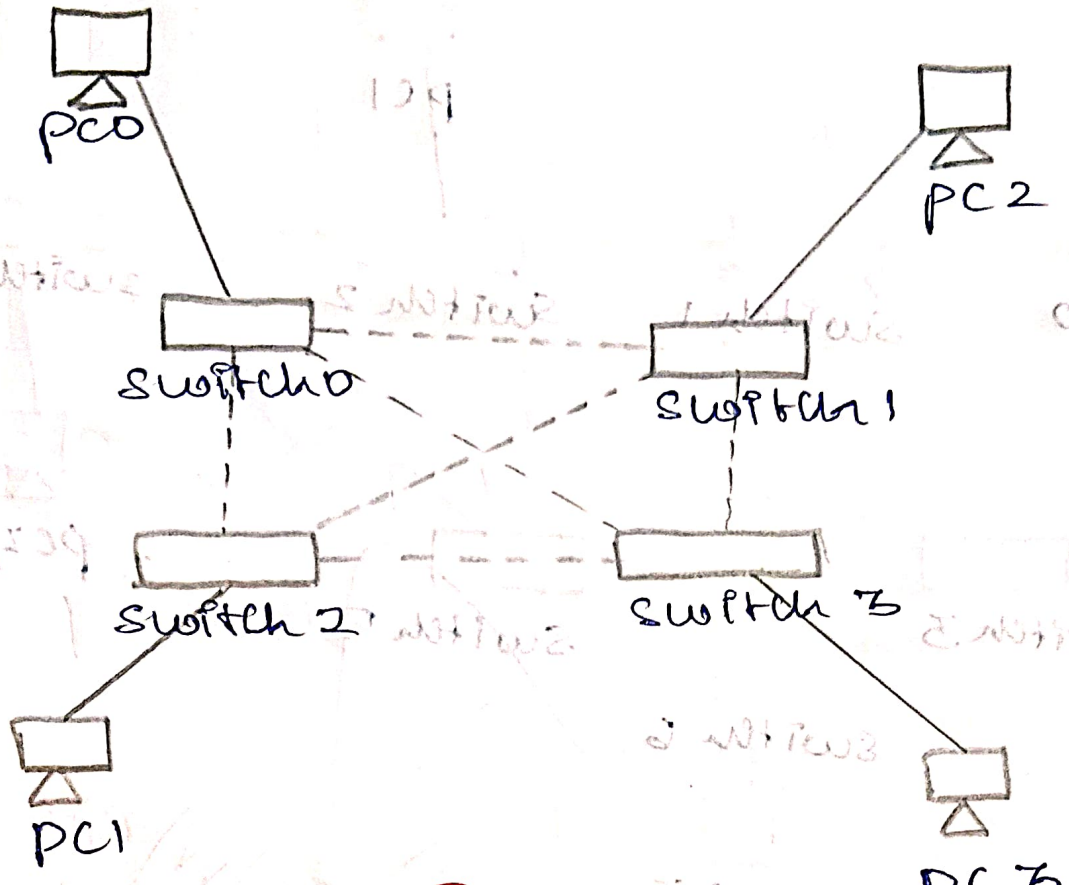
Step 9: Test connectivity. Open the command prompt on each computer and try to ping other computers and the router's interfaces to ensure connectivity.

Step 10: Customize and expand the lab as desired.



Result: Thus the computer Lab in cisco packet tracer is set up successfully

Experiment 5:



Experiment 8 :