Distant

EXPERIMENT-3

IMPLEMENTATION OF BUS TOPOLOGY USING PACKET TRACER

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

Software / Apparatus required: Packet Tracer / End devices, Hubs, connectors.

Steps for building topology:

Step 1: Start Packet Tracer.

Step 2: Choosing Devices and Connections:

Step 3: Building the Impology - Adding Hosts

Single click on the End Devices.

Single click on the Generic host.

Move the cursor into topology area.

Single click in the ropology area and it copies the device.

Step 4: Building the Loppingy - Connecting the Hosts to Switches

Salect a switch, by dicking once on Switches and once on a 2950-24 switch.

Add the switch by moving the plus sign "+".

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

Click once on the Copper Straight-through cable.

Click once on PC2.

Choose Fast Ethernet

Three the cursor to Switch()

Click once on Switch®

Notice the green link lights on PC Ethernet NIC and amber light Switch port. The switch port is temporarily not torwarding frames, while it goes through the stages for the Spanning Tree Process! (STP) process. After about 30 seconds the amber light will change to green indicating that the port has entered the forwarding stage. Frames can now forward out the switch port.

Step 6: Configuring IP Addresses and Subnet Masks on the Hosts

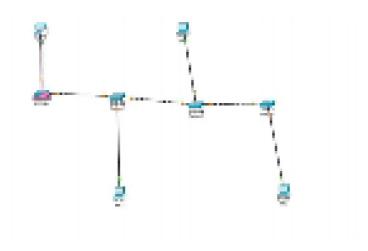
To scart communication between the bosts IP Addresses and Subner Mask's had to be configured on the devices. Click once on PCC. Choose the Config tab and click on TastEthernetO. Type the IP address in its field. Click on the subner mask it will

he generated automatically.

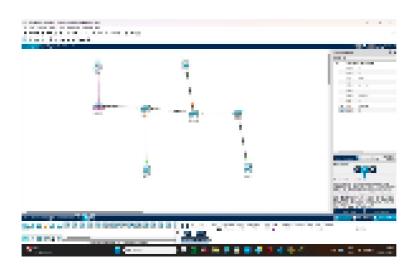
Step 7: To confirm Data transfer between the devices

Click on the node. Select desktop option and then command prompt. Once the window popsup, ping the LP address of the device to which node0 is connected. Ping statistics will be displayed.

Diagram:



Output:



Result: Thus the Bris topology is implemented with Packet Tracer simulation. Fool.