Director:

#### EXPERIMENT.4.

### IMPLEMENTATION OF RING TOPOLOGY USING PACKET TRACER

**Aim:** To implement a Ring topology using packet tracer and hence to transmit data between the devices esamested using Ring topology.

Software / Apparatus required: Facker Tracer / End devices, Hubs, Connectors,

Steps for huilding topology:

Step 1: Start Packet Tracer

Step 2: Choosing Devices and Connections

Step 5: Building the Lopology - Adding Hosts

Single click on the End Devices.

Single click on the Generic host.

Move the cursor into topologic men-

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

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

Select a switch, by choking once on Switches and once on a 2950-24 switch.

Add the so, tell by moving the plus sign "+"

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

Click once on the Copper Straight-through calde.

Chick once on PCC

Choose Fast Ethernet

Drug the cursor to Switchill

Click mee on Switch0

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

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

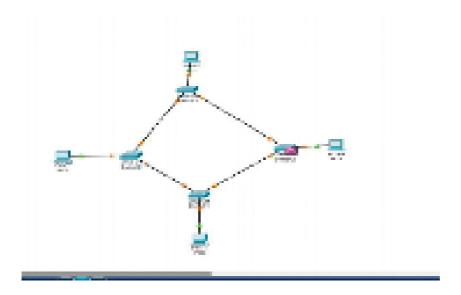
To start communication between the hosts LP Addresses and Subnet Masks had to be configured on the devices. Click once on PCO, Choose the Configure and click on PastDirecter). Type the IP address in its field, Click on the subnet mask it will

be generated automatically.

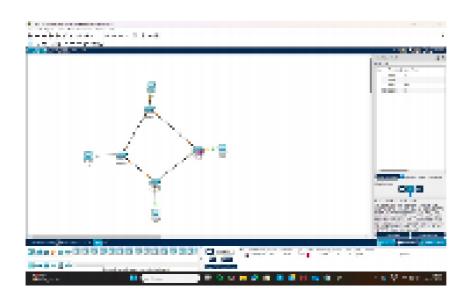
# Step 7: To confirm Data transfer between the devices

Click on the node. Select desktop option and then command prompt. Once the window paps up, ping the IP sokhess of the device to which noded is connected. Fing statistics w... be displayed.

### Dingram:



# Output



**Result:** Thus, the Ring topology is implemented with Pucket Tracer simulation Tool.