

EXPERIMENT-1

CONFIGURATION OF NETWORK COMPONENTS

AIM:-

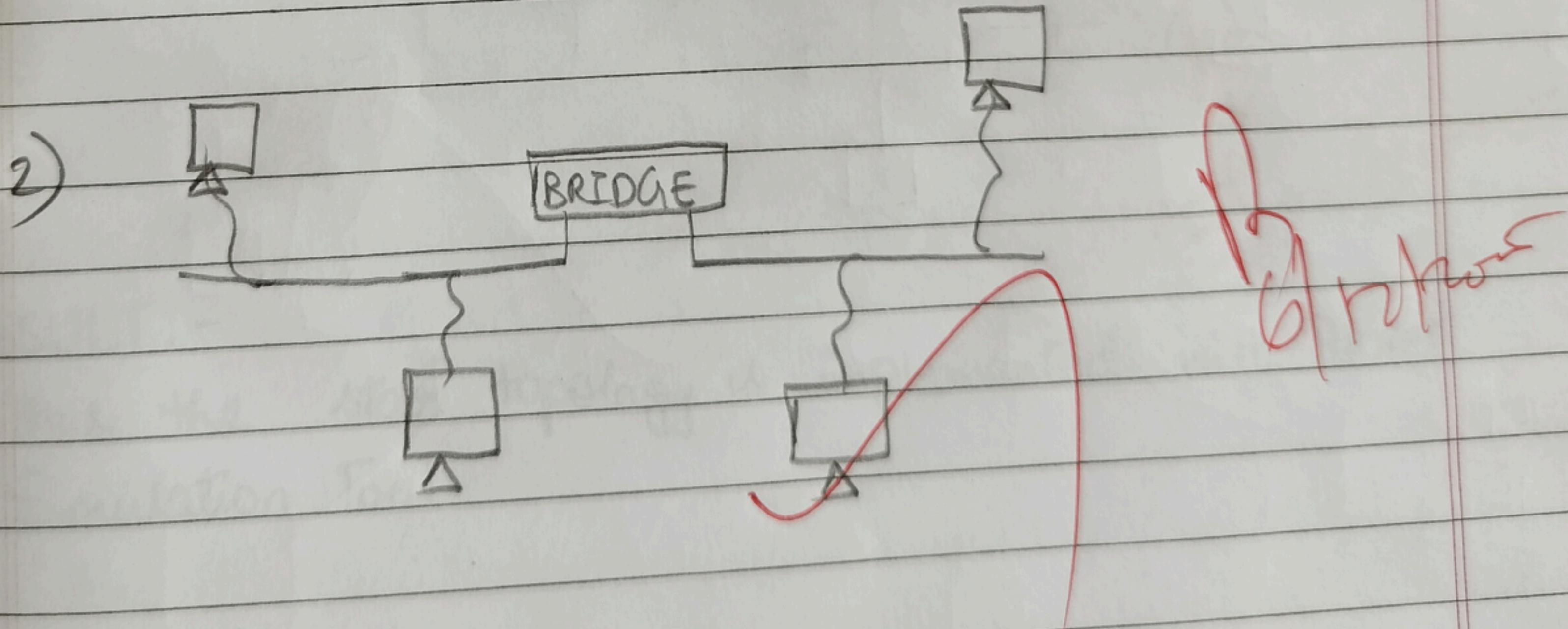
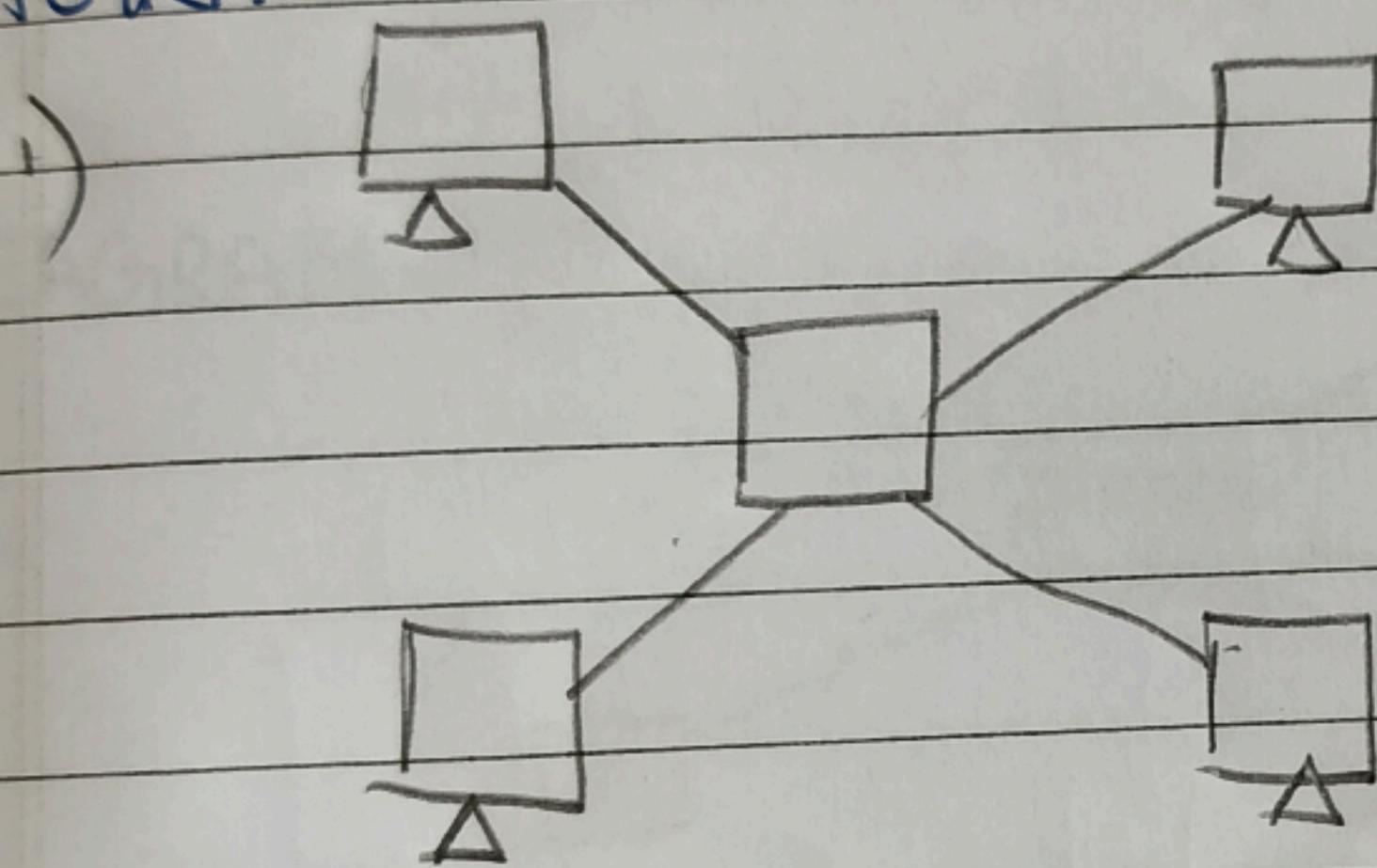
To Study PC, Server, Repeater, Hub, Switch, Bridge, Router, Gate Way, Transmission medium in detail

PROCEDURE :-

Node → Connection point that can send or receive data

Repeater → Receives a signal and retransmits at a higher level to cover long distances.

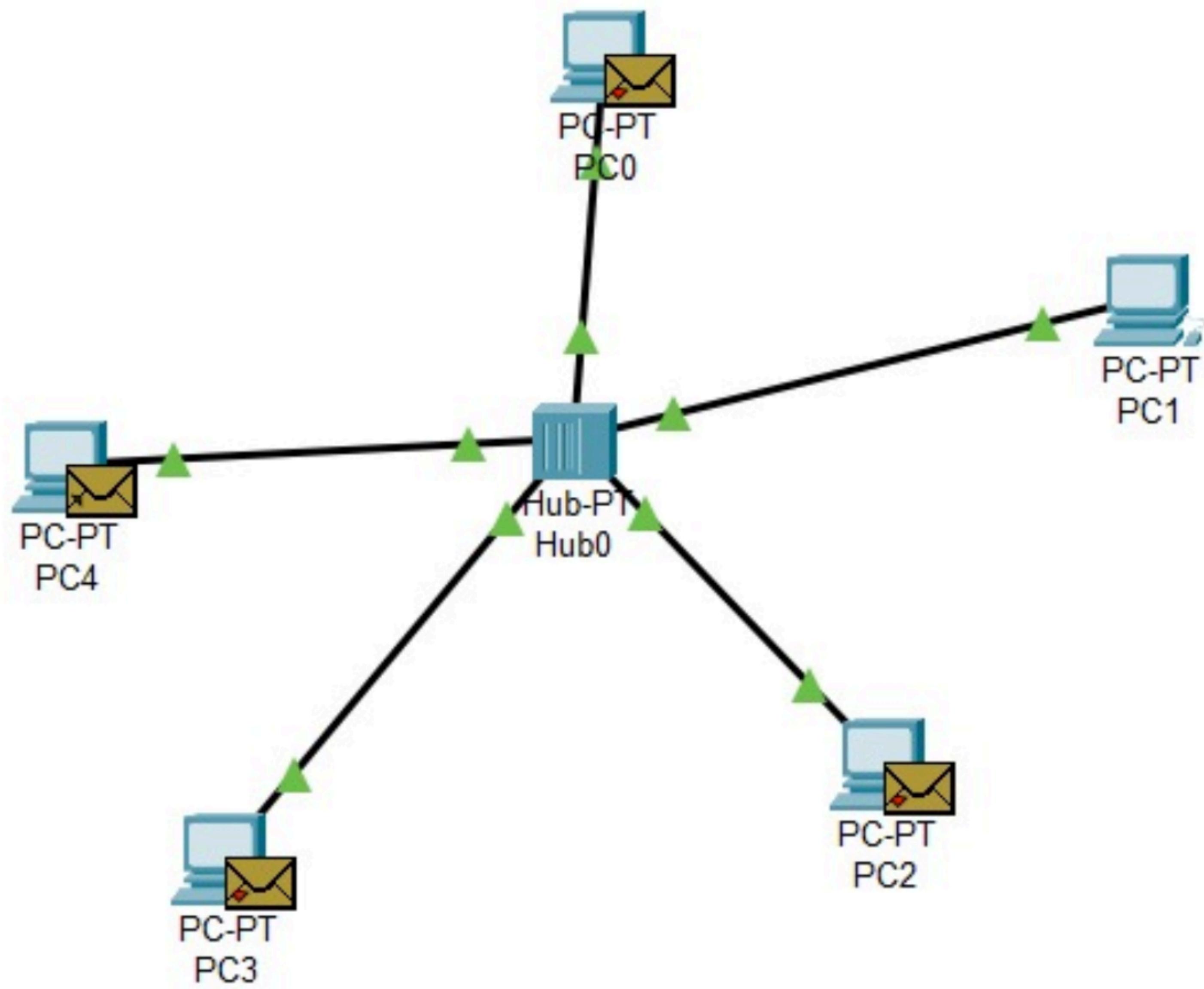
Router → It is an electronic device that inter-
 - connects two or more computer networks and selectively interchanges packets of data between them

DIAGRAM:-**RESULT:-**

Thus the network components are studied in detail

configuration

CONFIGURATION OF NETWORK DEVICES



IMPLEMENTATION OF STAR TOPOLOGY USING PACKET TRACER

EXPERIMENT-2

AIM:-

To implement a star topology using packet tracer and hence to transmit data between two devices.

PROCEDURE :-

Step 1 : Start Packet Tracer

Step 2 : Choose Devices and connect them

Step 3 : Building the Topology - Adding Hosts

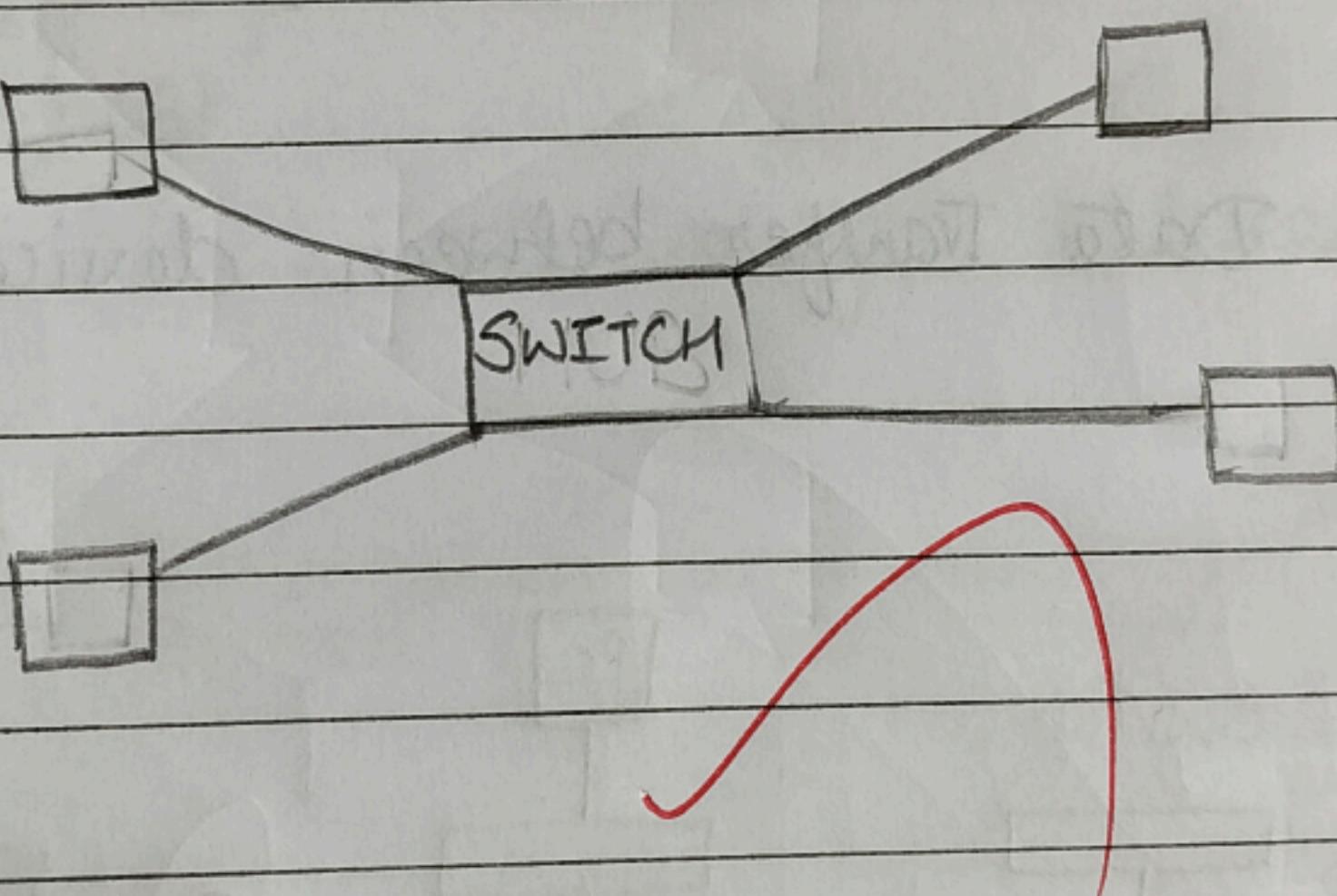
Step 4 : Building the topology - Connecting hosts to switches

Step 5 : Connect PCs to switch by first choosing connections

Step 6 : Configure IP Address and Subnet Masks

Step 7 : Confirm Data Transfer between 2 devices

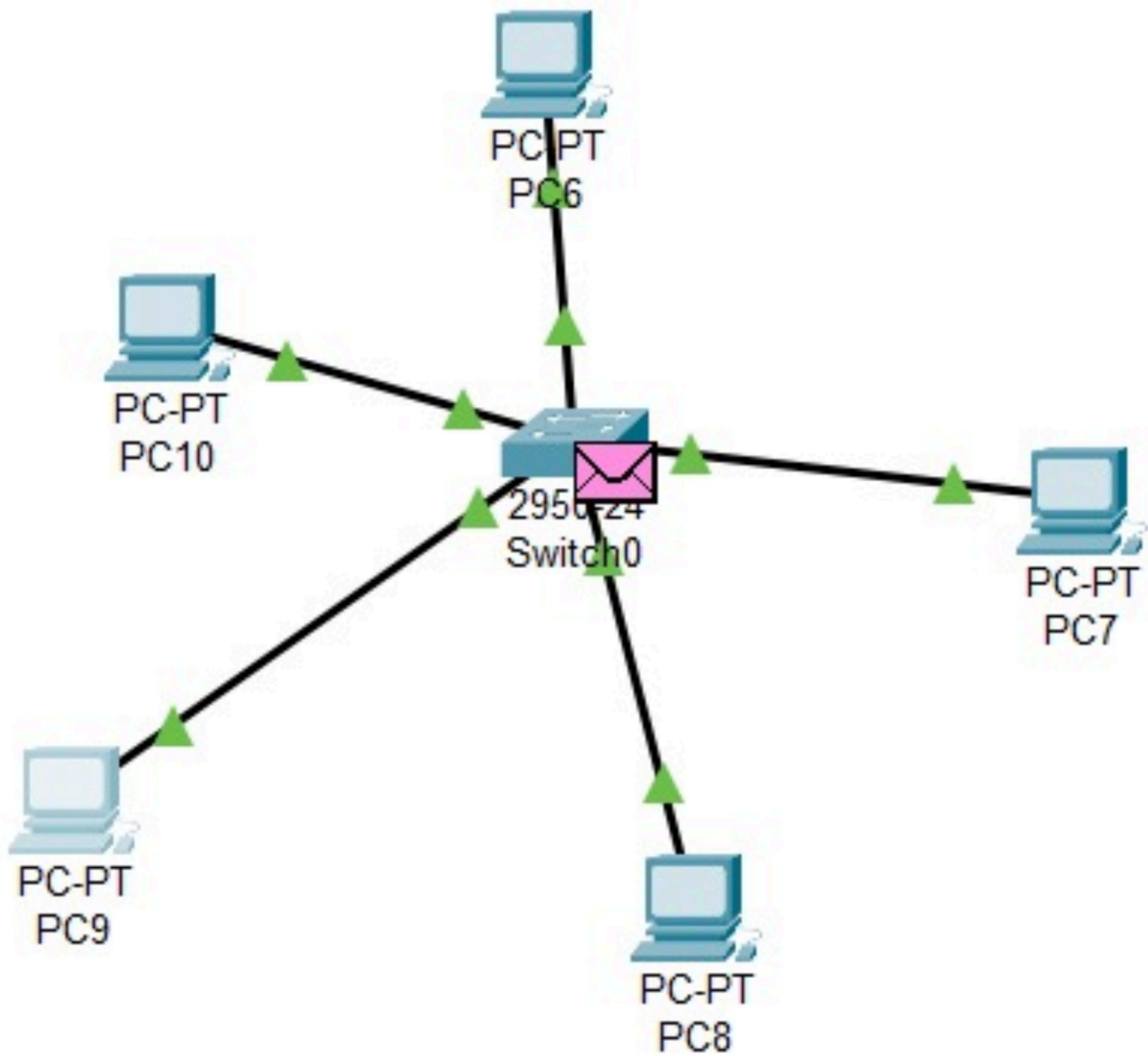
DIAGRAM :-



RESULT :-

Thus the star topology is implemented with Packet Simulation Tool

star topology



EXPERIMENT - 3

IMPLEMENTATION OF BUS TOPOLOGY USING PACKET TRACER

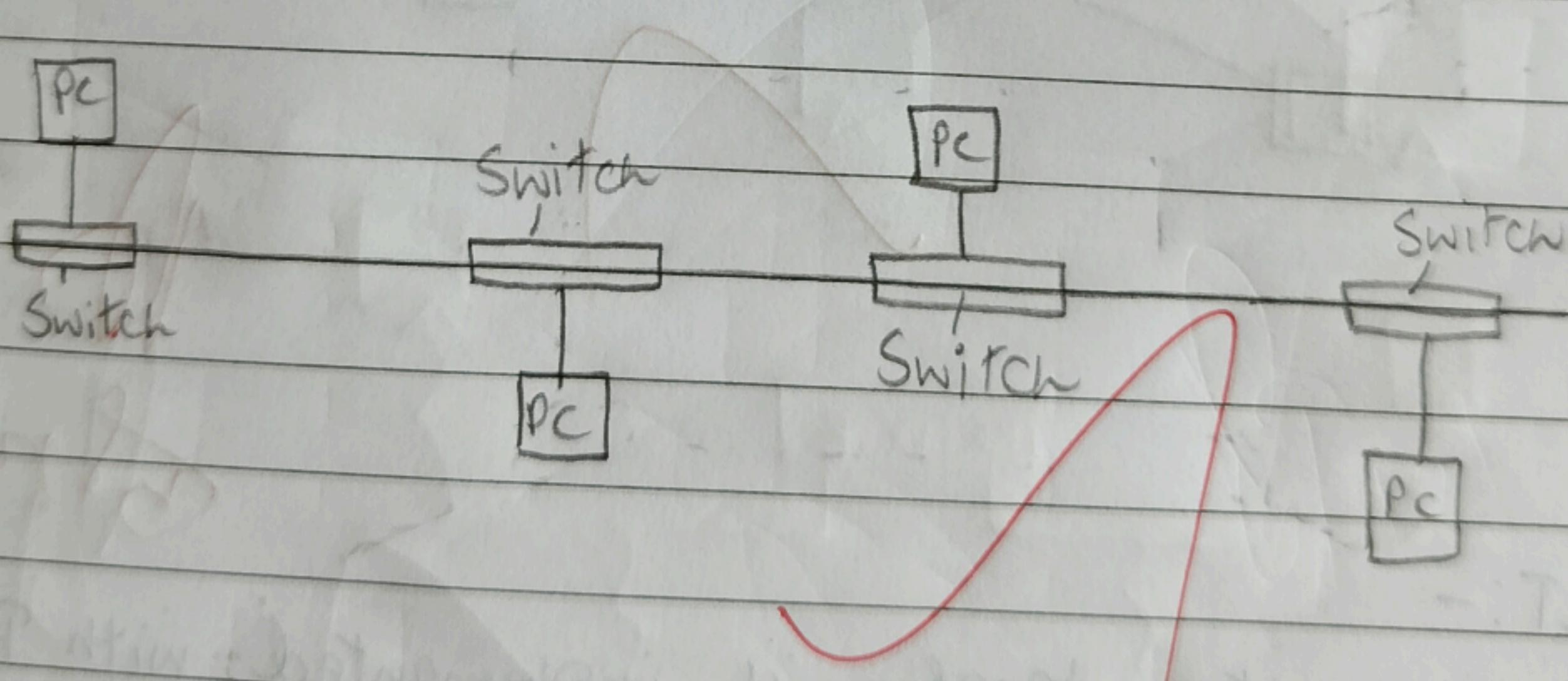
AIM:-

To implement a Bus topology using Packet Tracer and hence to transmit data between two devices

PROCEDURE:-

- Step 1 : Start Packet Tracer
- Step 2 : Choosing Devices and Connections
- Step 3 : Building the Topology - Adding Hosts
- Step 4 : Building the Topology - Connecting Hosts to Switches
- Step 5 : Connect PCs to switch by first choosing Connections.
- Step 6 : Configuring IP Address and Subnet Masks on the Hosts
- Step 7 : To Confirm Data Transfer between devices

DIAGRAM:-

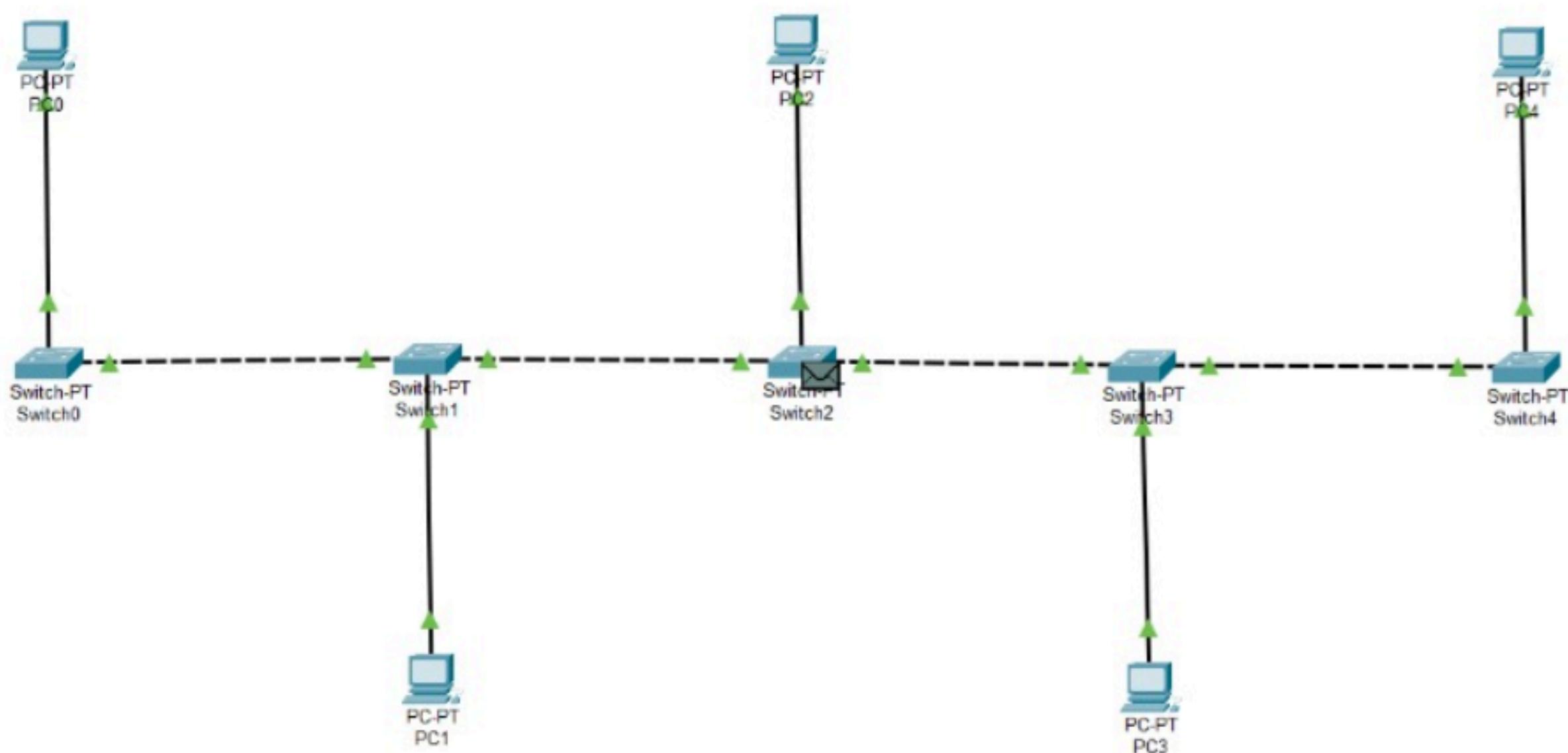


RESULT:-

Thus the bus Topology is implemented with Packer Tracer Simulation Tool

5/12/20

BUS TOPOLOGY



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 connected.

PROCEDURE :-

Step 1 : Start Packet Tracer

Step 2 : Choosing Devices and connections

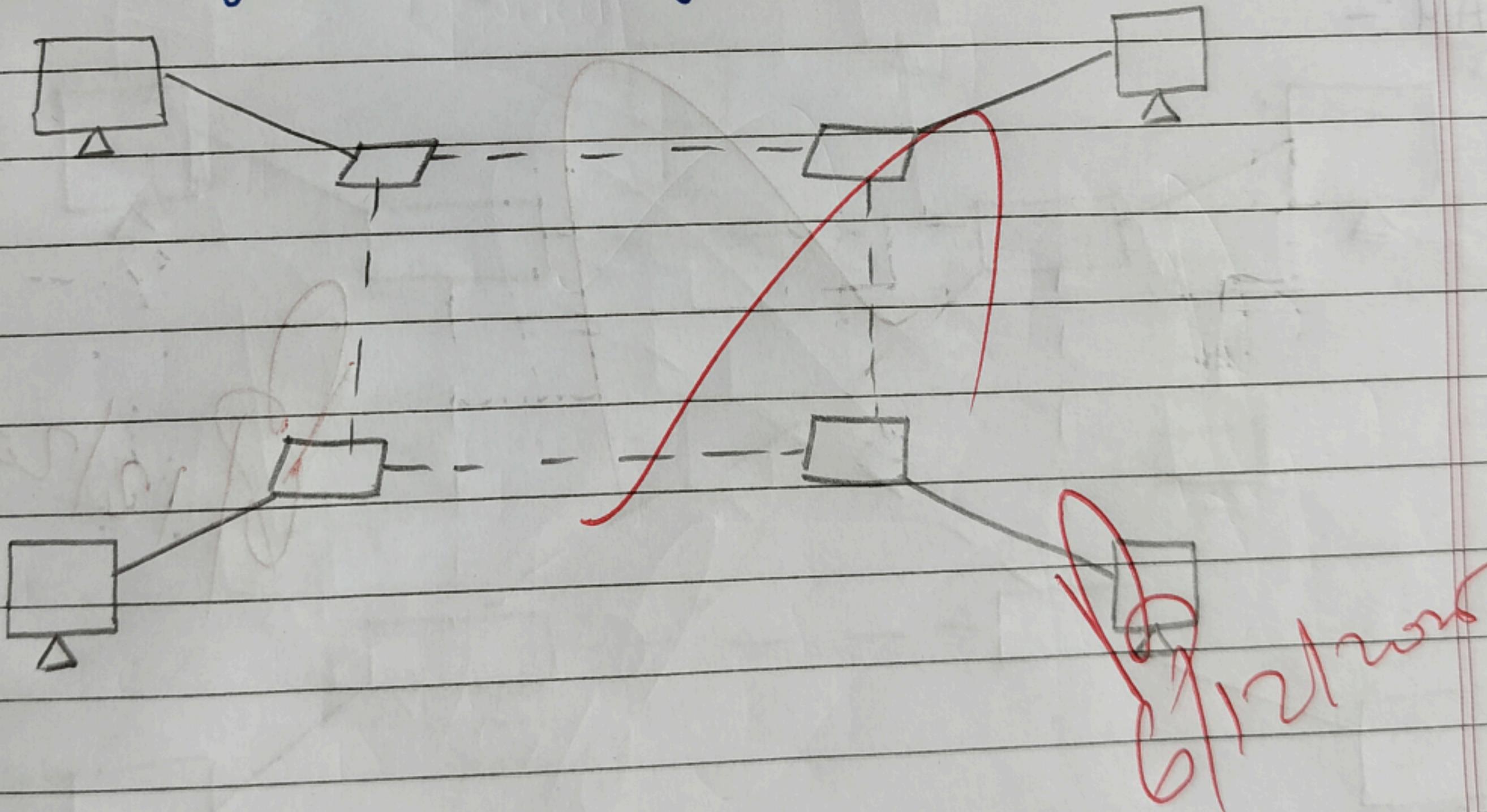
Step 3 : Building the Topology - Adding Hosts

Step 4 : Building the Topology - Connecting hosts to servers switches

Step 5 : Connect PCs to switch by first choosing connections

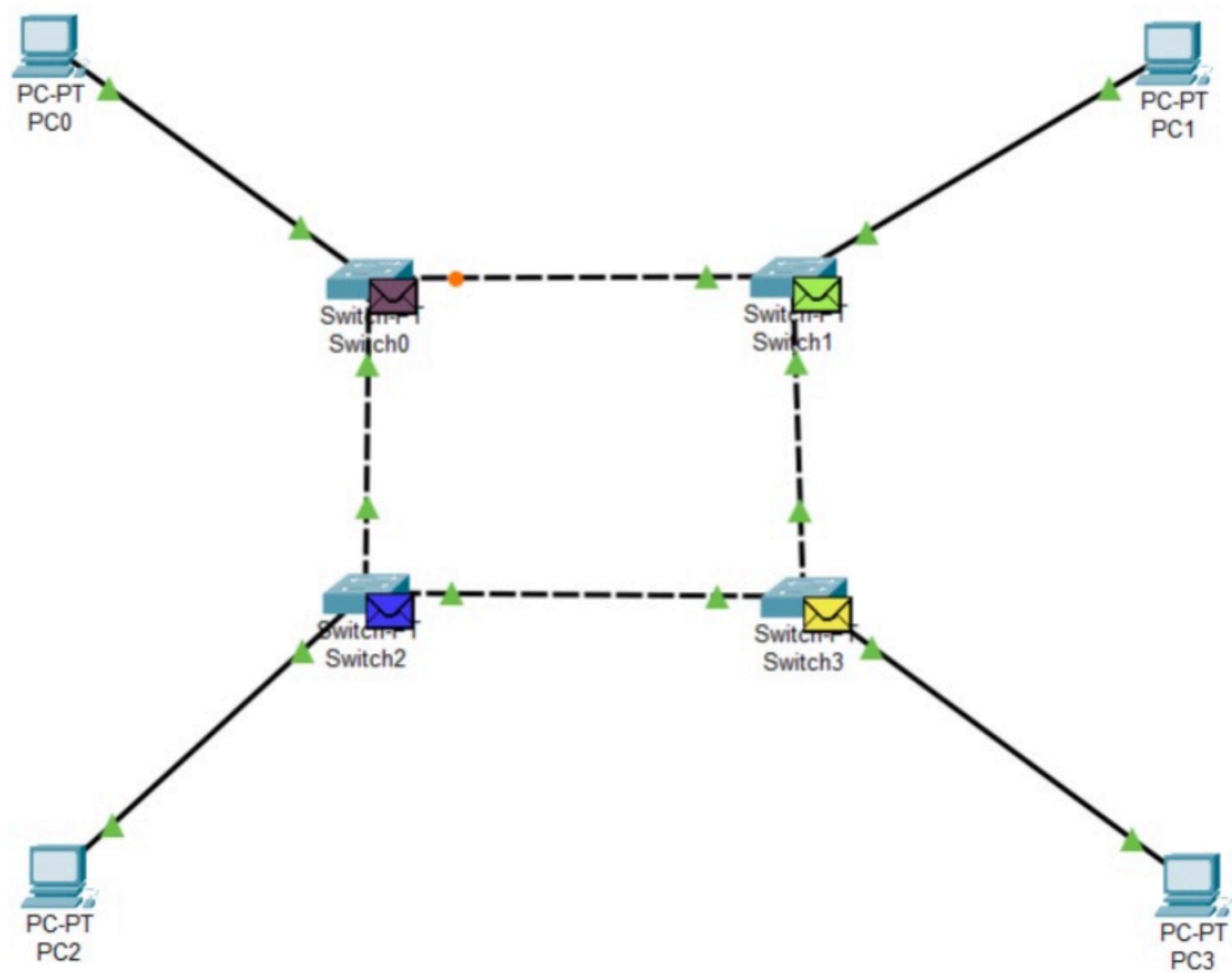
Step 6 : Configuring IP Addresses and Subnet Masks on the host.

Step 7 : To confirm Data Transfer between the devices.



RESULT:-

Thus the ring topology is implemented with Packet Tracer Simulation Tool



EXPERIMENT-5

IMPLEMENTATION OF MESH TOPOLOGY USING PACKET TRACER

AIM:-

To implement a mesh topology using packet tracer and hence to transmit data between the devices connected.

PROCEDURE:-

Step 1 : Start Packet Tracer

Step 2 : Choosing Devices and Connections

Step 3 : Building the Topology - Adding hosts

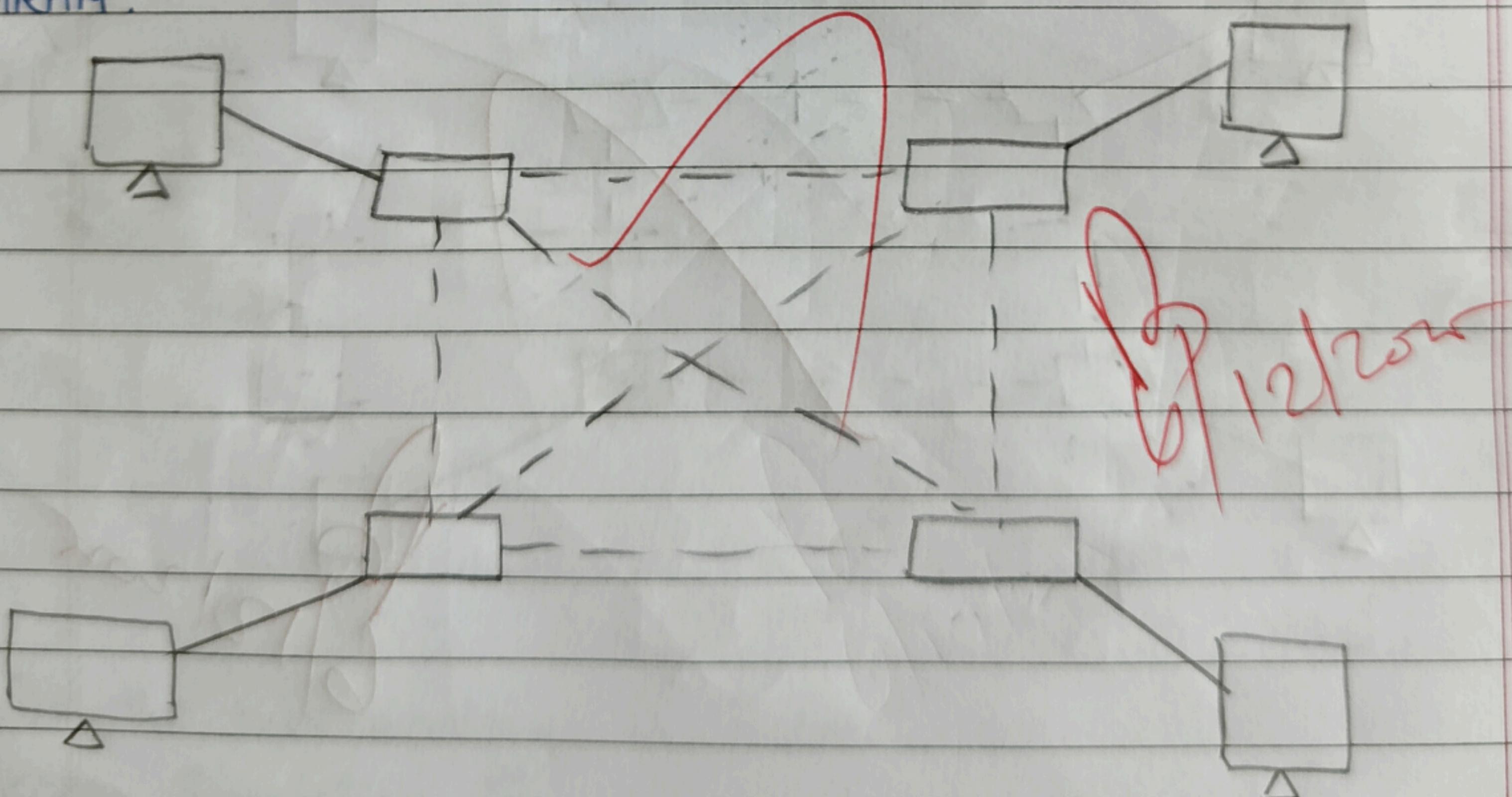
Step 4 : Building the Topology - Connecting the Hosts to switches

Step 5 : Connect PCs to switch by first choosing connections

Step 6 : Configuring IP Addresses And Subnet Masks on the hosts.

Step 7 : To confirm Data Transfer between the devices

DIAGRAM:-



RESULT:-

Thus the Mesh Topology is implemented with Packet Tracer Simulation Tool

