Q. Design and configuration of Star Topologies using packet tracer.

AIM :

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

Software Required :

Packet Tracer/End devices, bridges, connectors.

Steps for building Topology :

1. start packet tracer
2. choosing devices and connections
3. Building the topology
4. connecting the host to switches.
5. connect PCs to switch by first choosing connections.
6. Configure IP address
7. Confirm data Transfer.

Result :

Thus the star topology executed successfully.

2. Implementation of Bus Topology using packet Tracer.

Aim :

To implement Bus Topology using packet tracer and to transmit data between devices

Software : Packet tracer / End devices, Hubs

Steps :

1. Start packet tracer

2. choose Devices and connections

3. choose device building the topology choosing Host.

4. Building the topology - connecting to host to switches.

5. Connect PCs to switch by first connection.

RESULT :

Thus output executed successfully.

1. Implementation of Ring Topology

Aim :

To implement Ring Topology using packet tracer and to transmit data between devices.

Software required : Pocket tracers / end devices Hubs, connectors.

Steps :

1. start packet tracer
2. choosing device and connection
3. Building topology adding Host
4. connecting the host to switches
5. conned PC5 to switch by first choosing connection
6. congifure IP address on Host

Result :

Thus executed successfully.

5. Implementation of Mesh Topology.

Aim :

To implement mesh topology using packet tracer and to transmit data between devices.

Software used : Packet Tracer/ End devices, Hubs

Steps :

1. Start packet tracer
2. Choosing devices and connections
3. Building the Topology : Adding hosts
4. Connecting the host to switches
5. Connect PC5 to switch by first choosing connections
6. Configure IP address
7. Data Transfer between devices

Result :

Thus the output executed successfully

6. Implentation of Tree Topology

Aim :

To implement tree topology using packet tracer and to transmit data between devices.

Software Used : Packet Tracer / End users, Hubs

Steps :

1. Start Packet Tracer
2. Choosing devices and connector
3. Building Topology - Adding Hosts
4. Connecting the Host to Hubs
5. Connect PC5 to Hub by choosing Connections
6. Building Tree Topology
7. Configure IP address and masks on Host

Result :

Thus program executed successfully.