



# SNS COLLEGE OF TECHNOLOGY

AN AUTONOMOUS INSTITUTION

COIMBATORE 35

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



## Network Topologies

### Topologies

Arrangements of nodes in a computer network is called topologies.

### Types of topologies

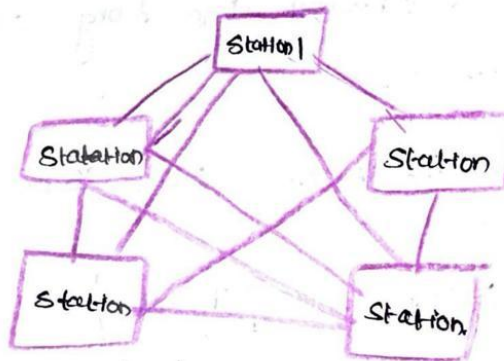
\* Star \* Mesh

\* Bus \* Ring

Mesh topology: Each device is connected to every other device.

\* Mesh topology is robust & secure.

\* Installation is difficult & expensive.





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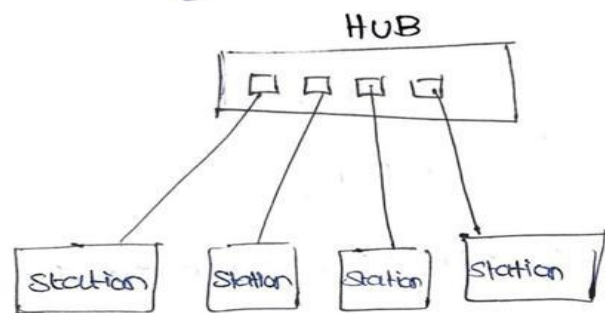
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Star topology  
\* Each device has a dedicated point-to-point link only to a central controller, called Hub.

\* All communication goes via the hub.

\* It is less expensive & robust as long as the hub works.

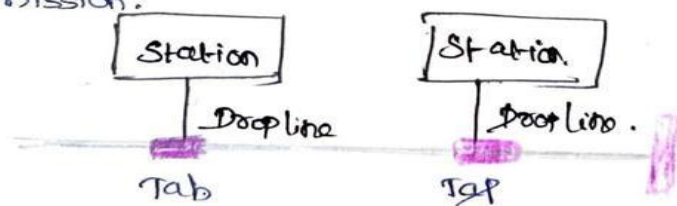
Eg: LAN [Local Area Network]



Bus topology

\* It is multi-point and signal gets weak as it travels through the long cable that acts as backbone.

\* A fault on the bus stops the entire transmission.





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## Ring topology (4)

\* Each device has a dedicated point-to-point connection with the devices on either side of it.

\* A break in the ring can disable the entire network due to unidirectional traffic

