

Q. How many modes of transferring data are used throughout networking

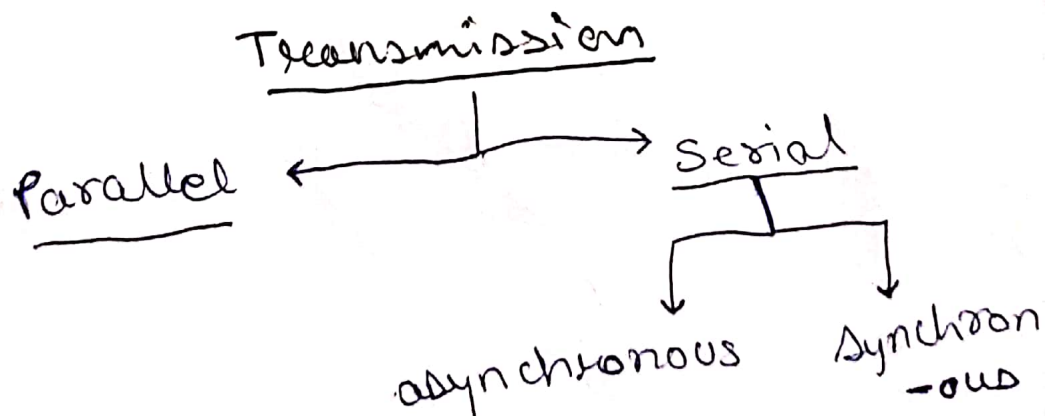
↳ There are two types / methods used to transmit data B/w digital devices :-

(1) Serial transmission

(2) Parallel transmission

• Serial transmission :- Serial transmission send data bits one after another over a single channel.

→ It is viewed as a reliable data transmission method because a data bit is only set if the previous data bit is already received.



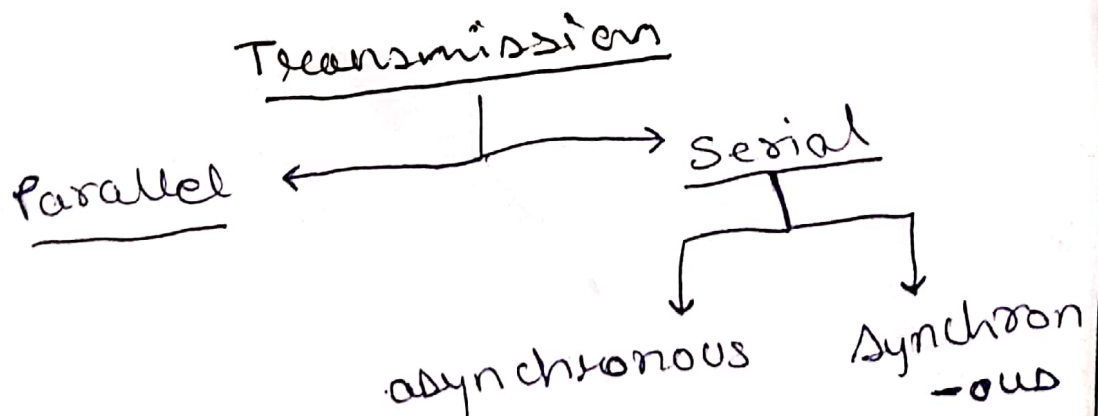
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- Parallel transmission:- when data is sent using parallel data transmission, multiple data bits are transmitted over multiple channels at the same time.

→ Given that multiple bits are sent over multiple channels at same time, the order of which a bit string is received can depend on various conditions, such as proximity to the data source, user location & Bandwidth availability.

Advantages — ① Easier to program.

② Data is sent fast.

③ Large amount of data sent

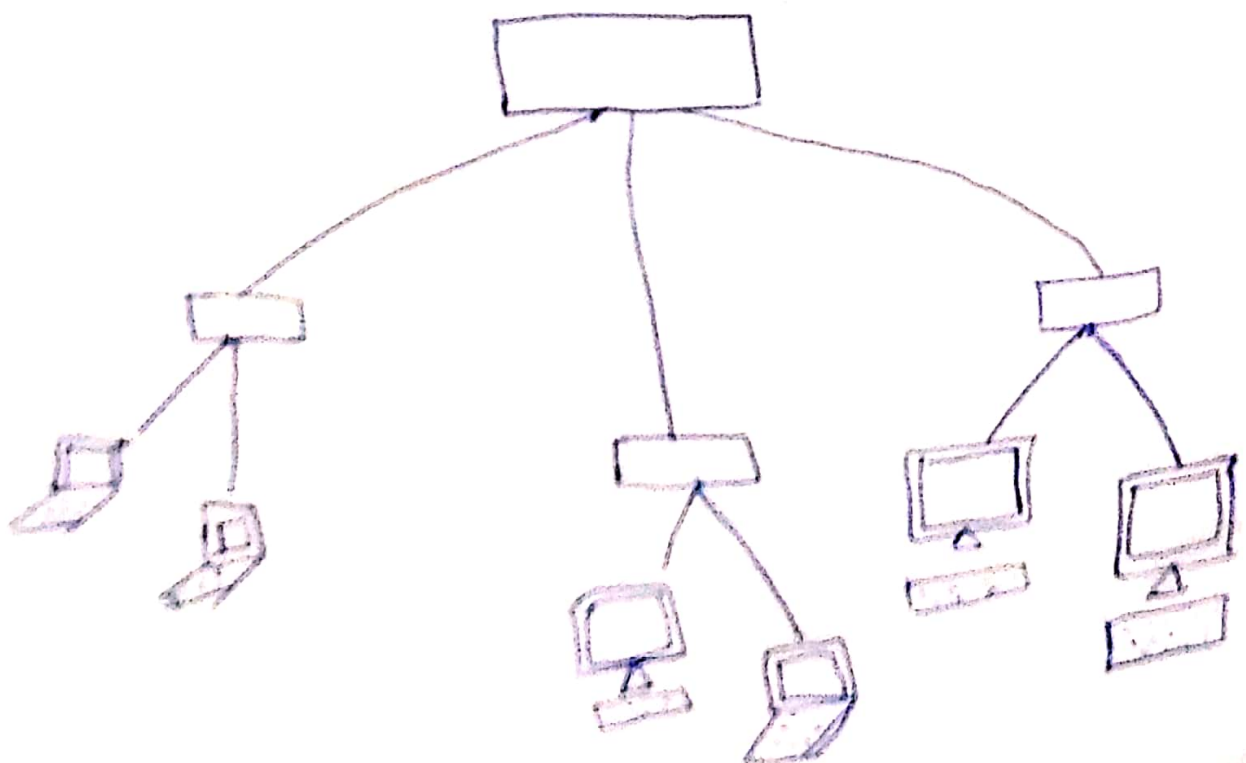
④ data being sent time - sensitive.

Q - Short note on Ethernet .

↳ Ethernet is a family of computer networking technologies for local area networks (LAN) & metropolitan area network (MAN).

→ LAN is most popular technology world wide .

→ It is easy , inexpensive way to provide high performance network to all different types of computer equipments .



Q - How are networks classified based on their connections?

↳ Networks are typically classified by range, ranging from small, personal network to global wide-area networks & internet itself.

Topologies :- Bus, ~~ring~~ ring, star, Mesh, Tree.

BUS : Multiple data communication circuit, that makes it relatively simple to control data flow.

Ring : Each device is connected to its neighboring node forming the shape of ring based on data flow.

Q - In how many ways, data is represented & what are they?

↳ Computer uses binary - the digits 0 & 1 - to store data. A binary digit, or bit, is the smallest unit of data in computing.

→ It is represented by 0 or 1. Binary number is made up of binary digit (bit), i.e. 1010.

Q How can a network be certified as an effective network? what are factor affecting them?

↳ Performance : it is measured in terms of response time.
The response time should be minimal.

Data sharing : Network is to share the Data b/w different ~~networks~~ systems connected with each other through transmission media.

Backup : Central server that keeps the backup of all the data that is to be shared over a network so that in case of a failure it should be able to recover data.

Reliability : There should ~~be~~ not be any failure in the network or if it occurred, recovery from failure should be fast.

Q Explain Important technologies
we came across networking
concept ?

↳ WAN; stands for wide area
networks. Covers area wide
enough so that communication
is barely possible without
networking.

Internet : It is computer network
system that connects the
computer of the world. It is
normal connecting through WAN
or LAN.

WWW : It is service that
is used on internet to
view and search contents
in form of web pages.