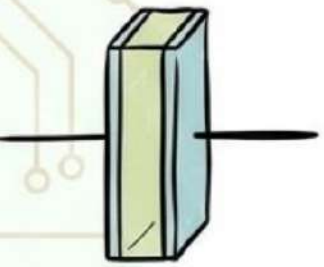
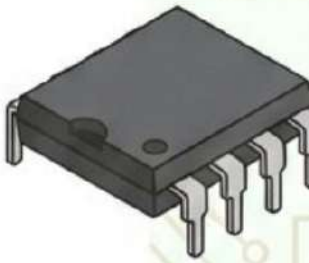
$$V = I * R$$



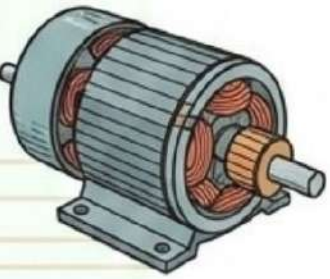
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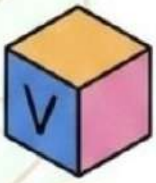


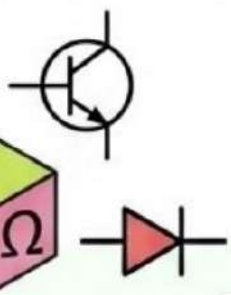
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$$P = V * I * \cos(\varphi)$$

Eng. Hany Ismail ----- 51178112

* Wireless networks and protocols *

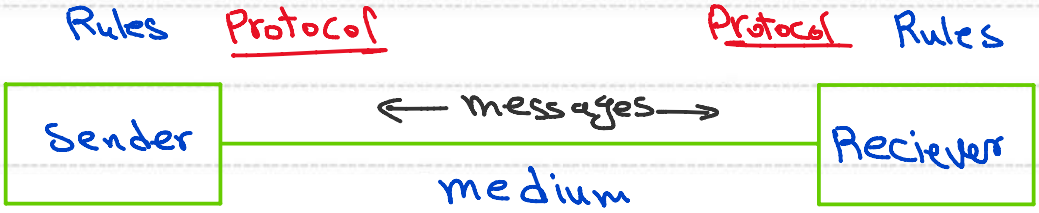
Ch ① - part ①

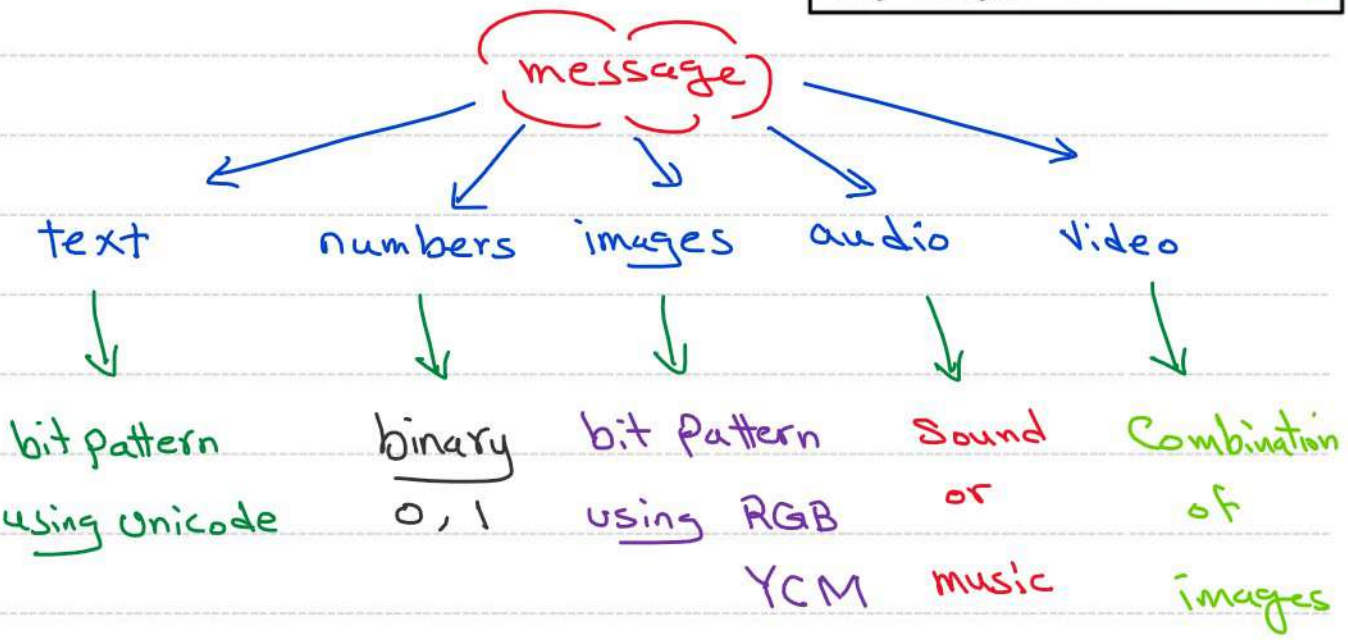
* Data Communications :

is the exchange of data between two devices via some form of transission media.

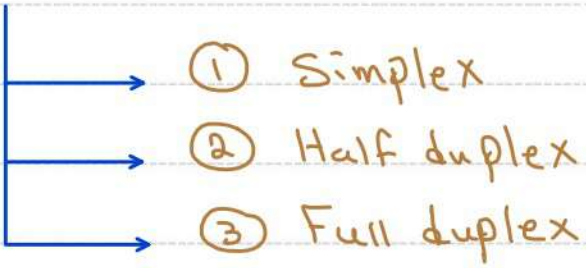
* Components of data Communications system :

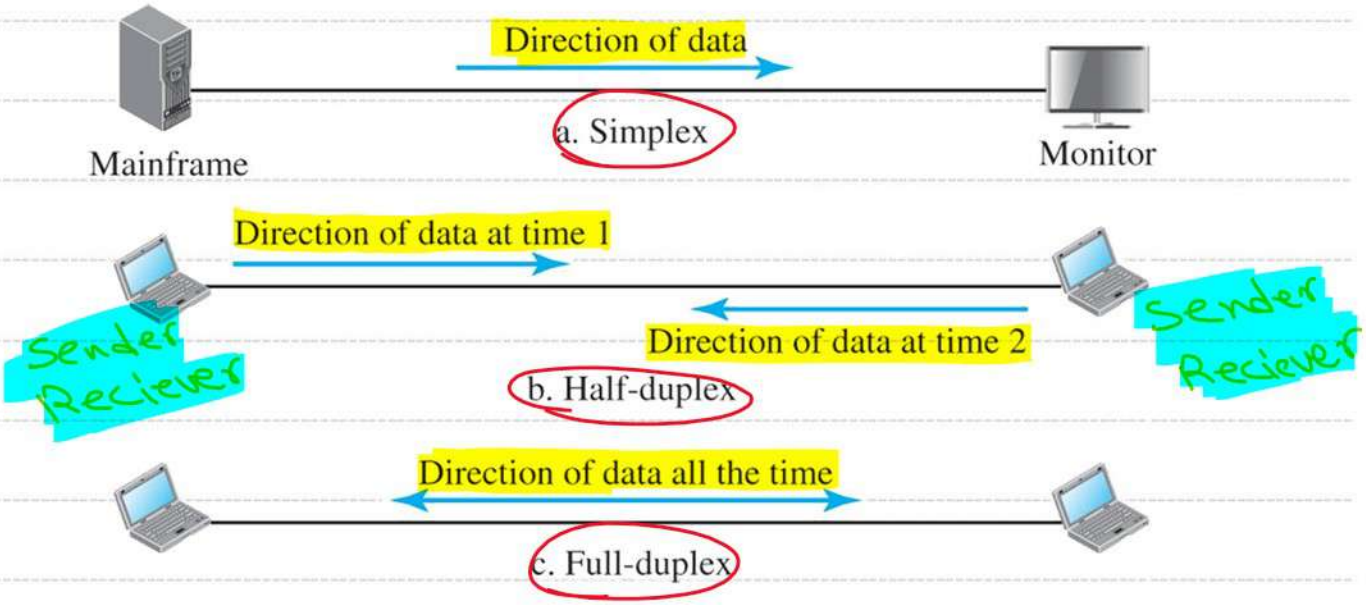
① message
② Sender
③ Receiver
④ Transmission medium
⑤ Protocol




message
text
numbers
images
audio
video
bit pattern using unicode
binary 0, 1
bit pattern using RGB YCM
Sound or music
Combination of images

* Data flow:


1 Simplex
2 Half duplex
3 Full duplex


Direction of data
Mainframe
Monitor
a. Simplex
Direction of data at time 1
Direction of data at time 2
Sender Reciever
Sender Reciever
b. Half-duplex
Direction of data all the time
c. Full-duplex

* Networks :

① Network Criteria.

② physical structure.

① Network Criteria.



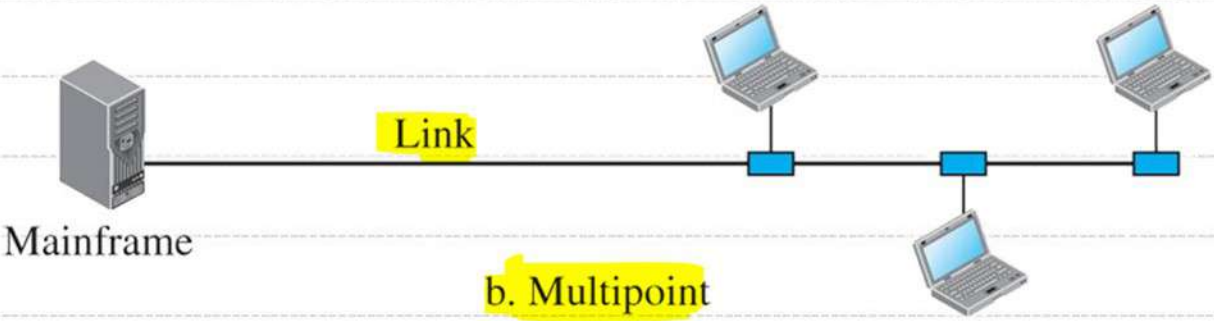
② physical structure.

* Types of connection :

- Point to Point.
- Multipoint.



a. Point-to-point



b. Multipoint

* physical topology :

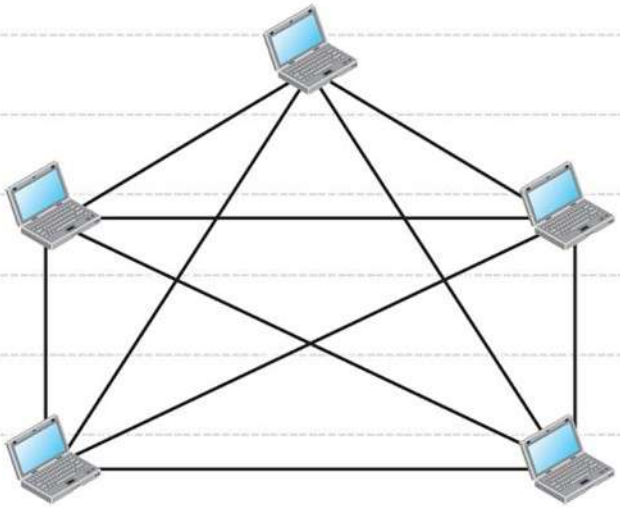
* four topologies

mesh – star – bus – ring

* mesh topology :

n = 5

عدد الأجهزة

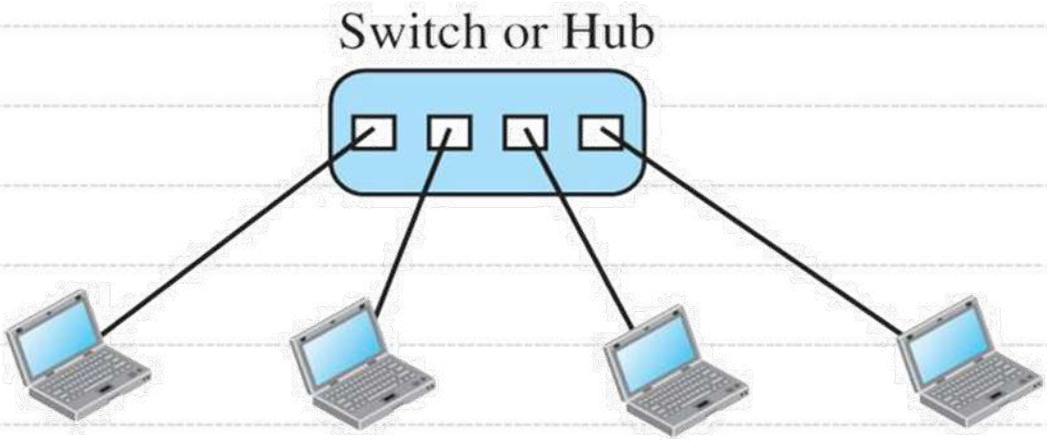


10 links

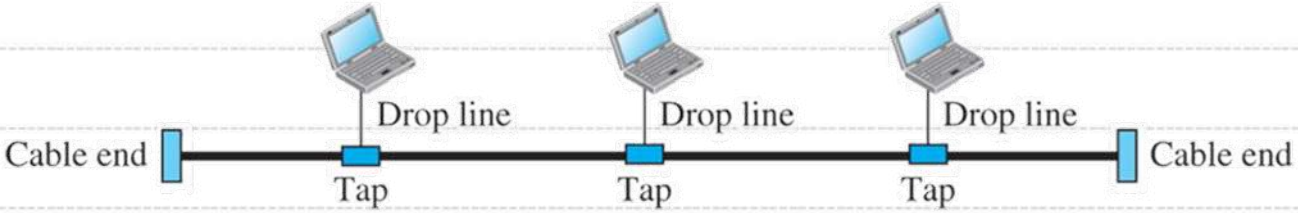
عدد الروابط

Links

* Star topology:



* bus topology:



* ring topology:

