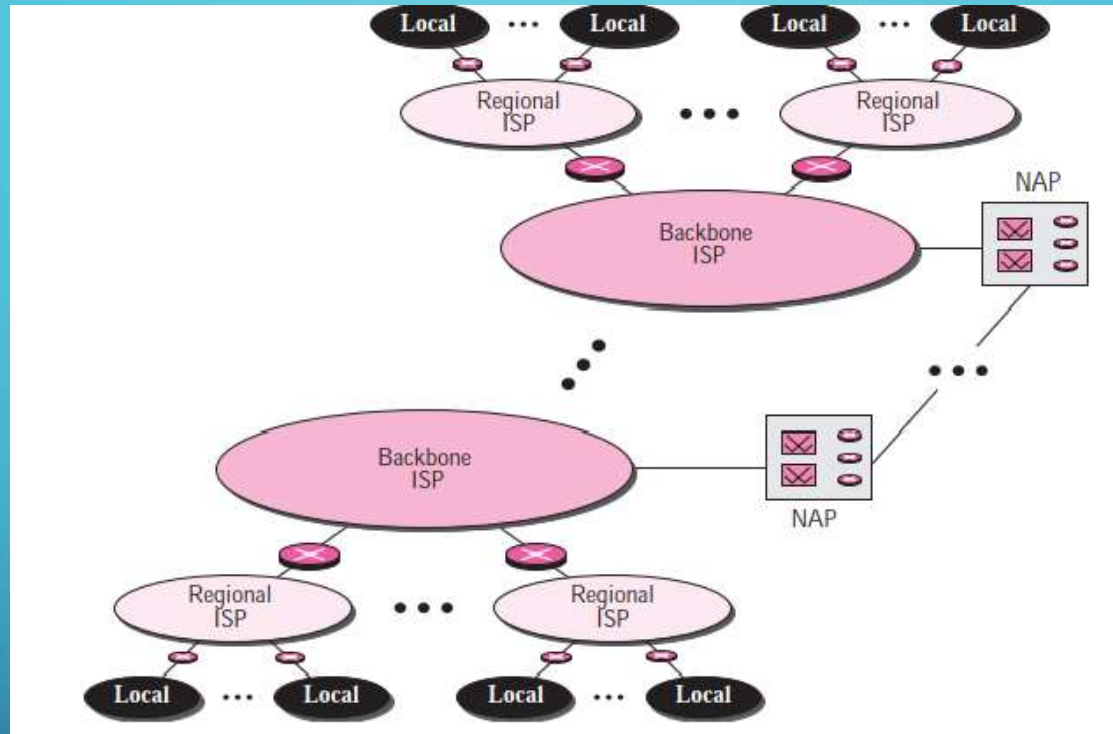




COMPUTER NETWORKS



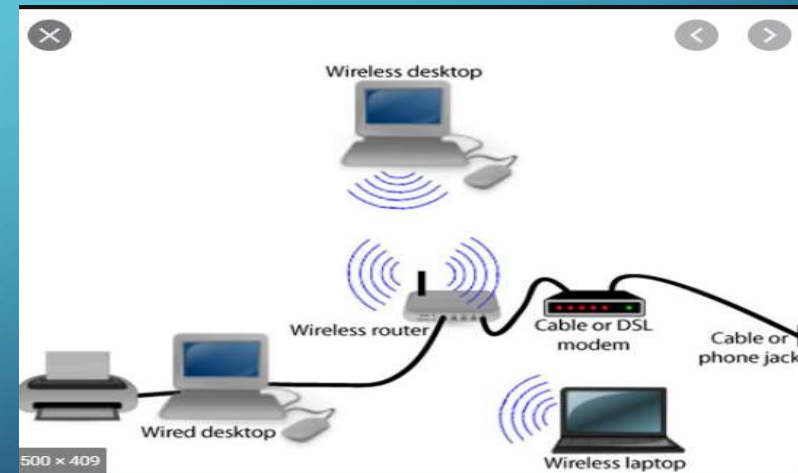
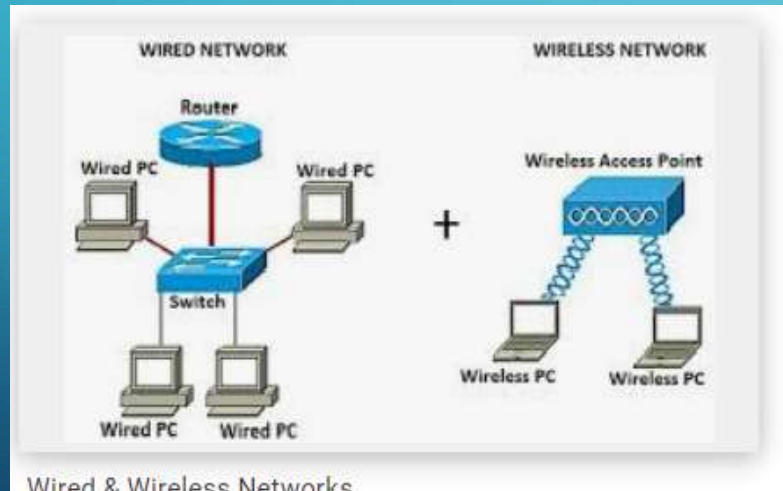
COMPUTER NETWORKS



INTERNET TODAY

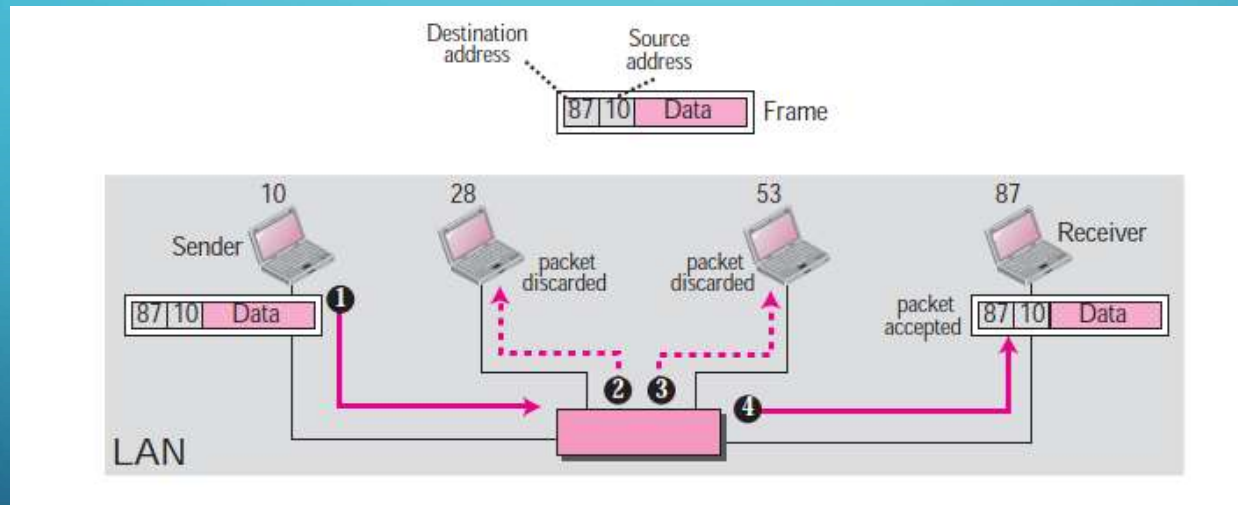
NETWORK REQUIREMENT

Media –wire –coaxial cable, twisted pair, fiber optic
wireless— radiowaves, microwaves, infrared



NETWORK REQUIREMENT

Addressing



NETWORK REQUIREMENT

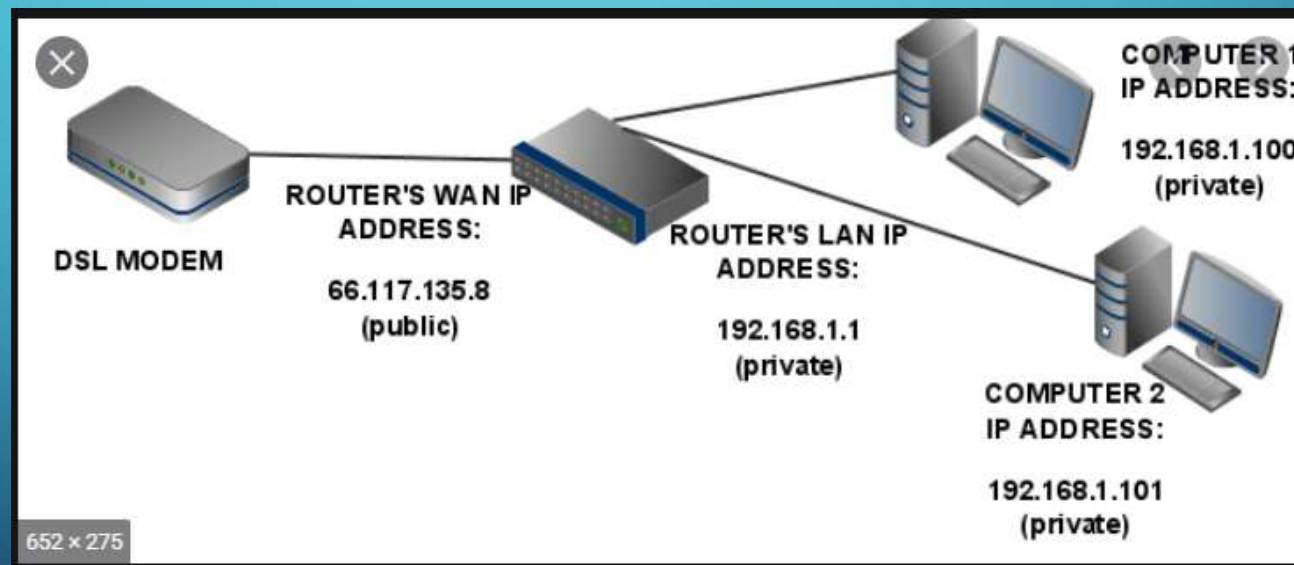
Addressing: Physical Address
, ex: MAC address
Logical Address,
ex: IP address

MAC



NETWORK REQUIREMENT

Addressing: Logical Address,
IP address

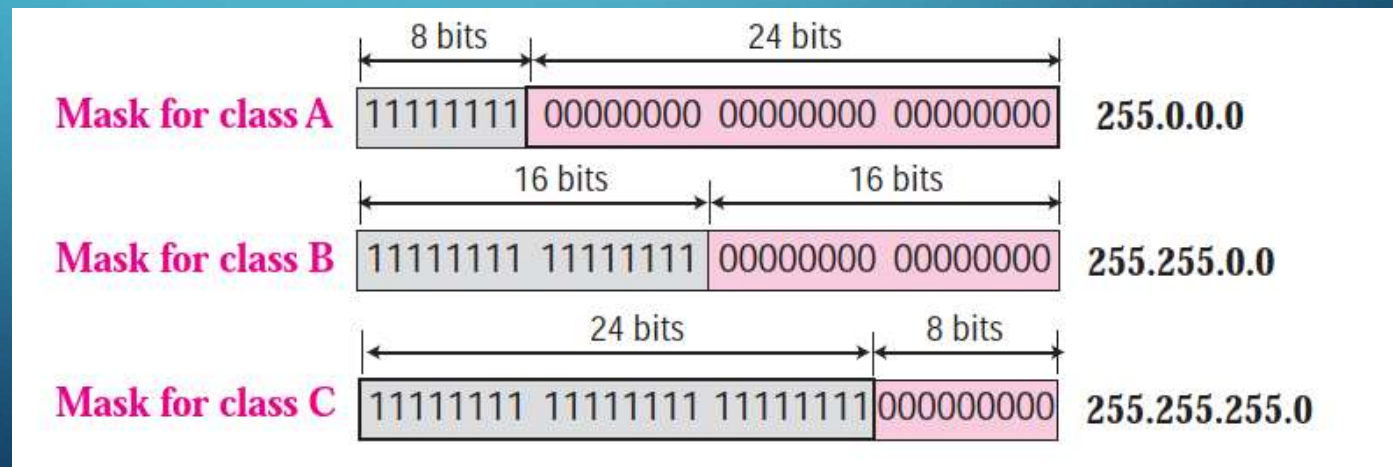


NETWORK REQUIREMENT

IP address classes

	Octet 1	Octet 2	Octet 3	Octet 4		Byte 1	Byte 2	Byte 3	Byte 4
Class A	0.....				Class A	0-127			
Class B	10.....				Class B	128-191			
Class C	110.....				Class C	192-223			
Class D	1110....				Class D	224-299			
Class E	1111....				Class E	240-255			

Binary notation Dotted-decimal notation



NETWORK REQUIREMENT

Flow Control

Error Control

Error Detection

Congestion Control

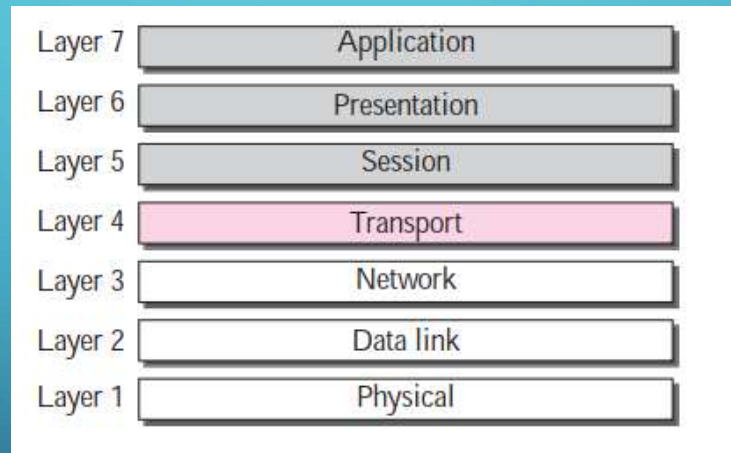
Routing

.....etc..

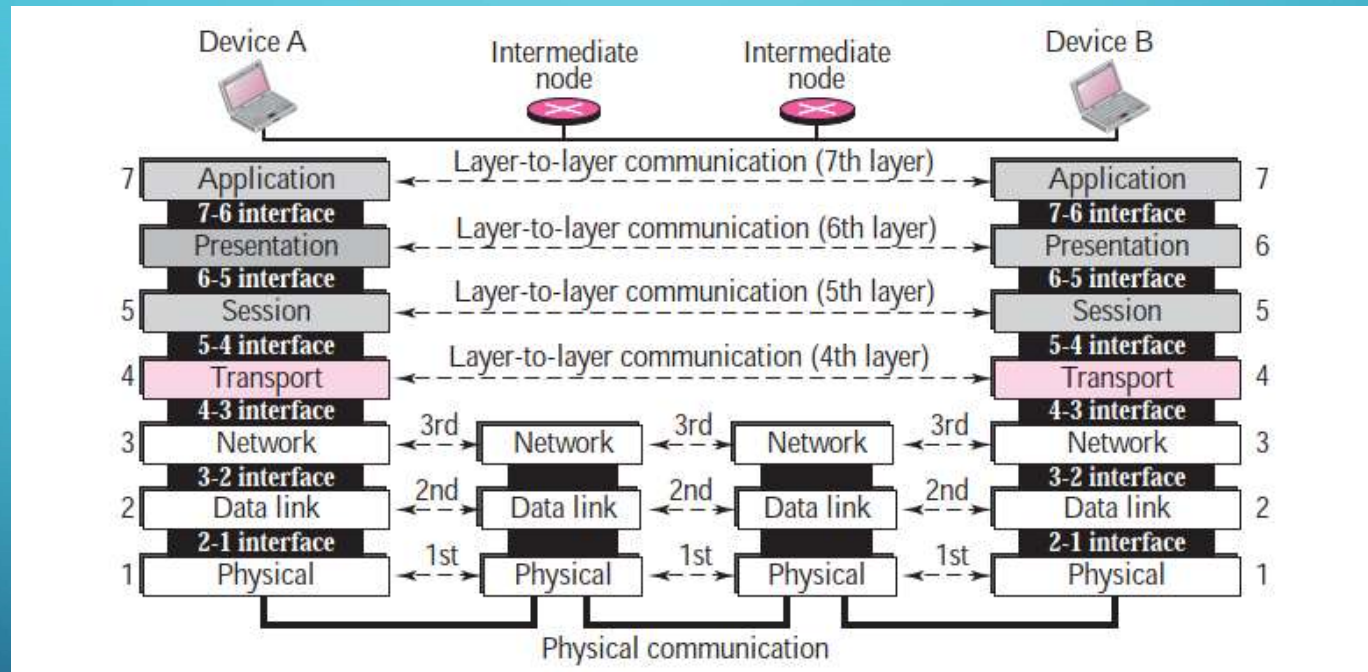
LAYER ARCHITECTURE AND PROTOCOLS

- (1) OSI (OPEN SYSTEM INTERCONNECTION) LAYERS
- (2) TCP / IP LAYERS

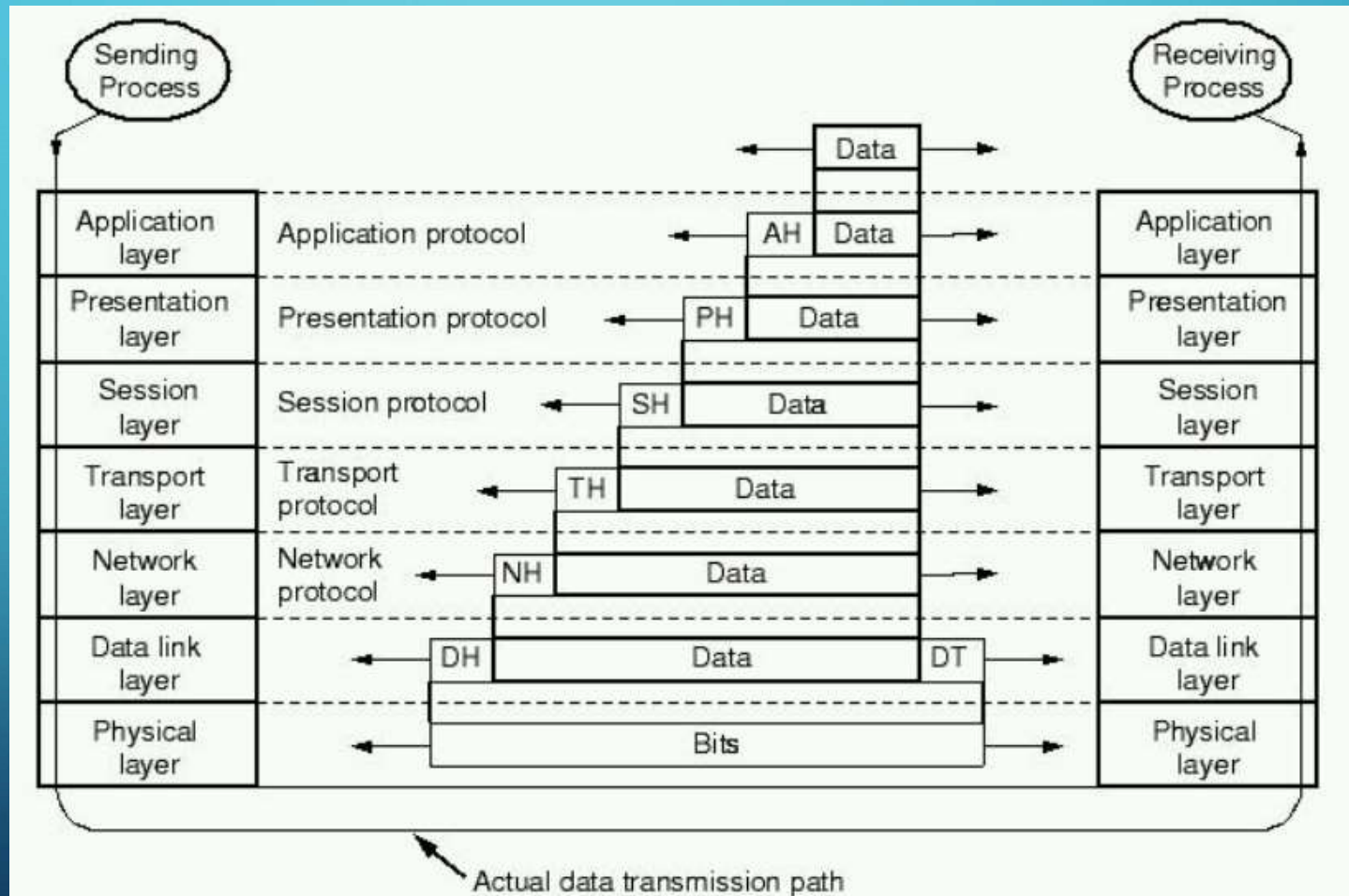
OSI Model



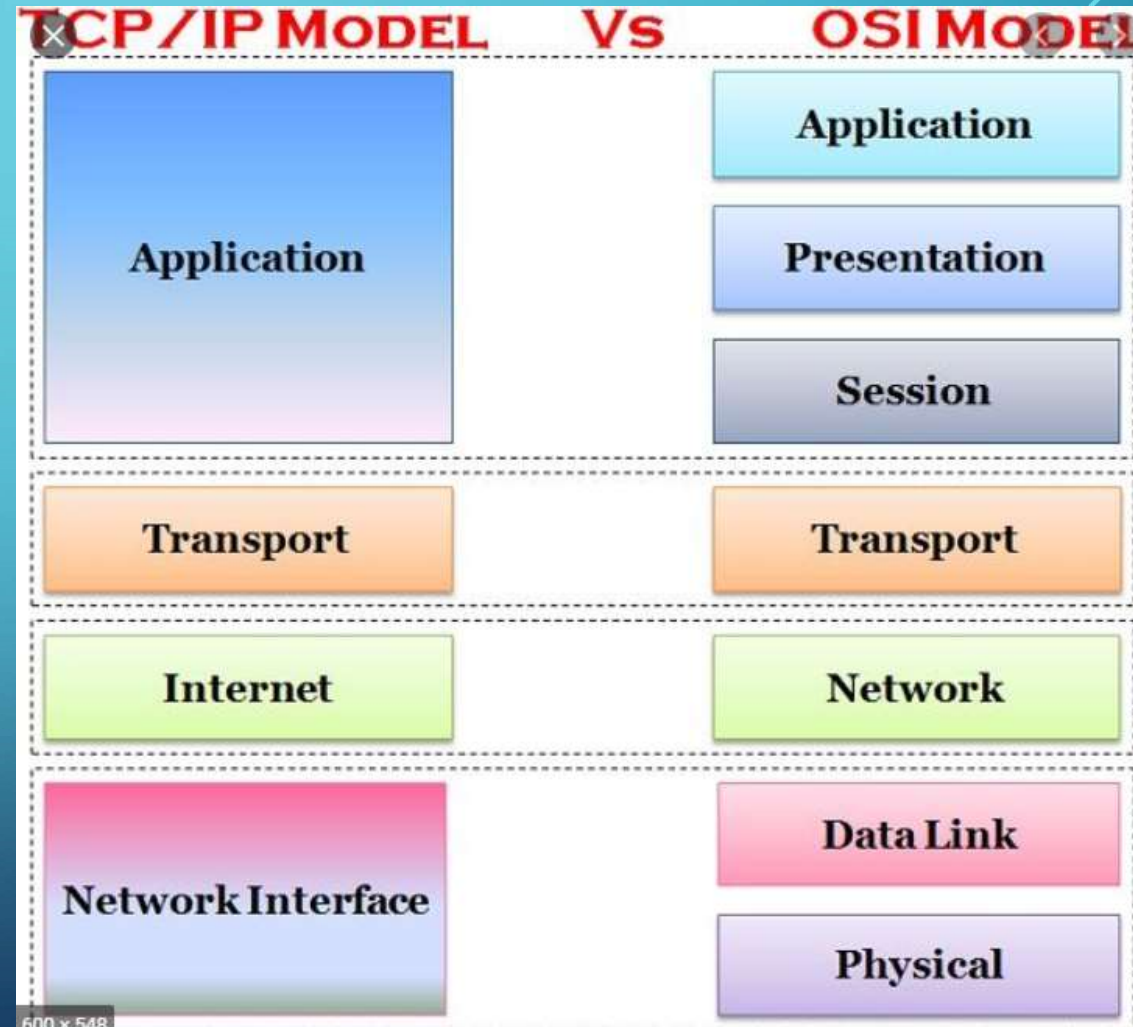
OSI Layers



An exchange using the OSI model



TCP/IP and OSI model



Communication in TCP/IP Model

