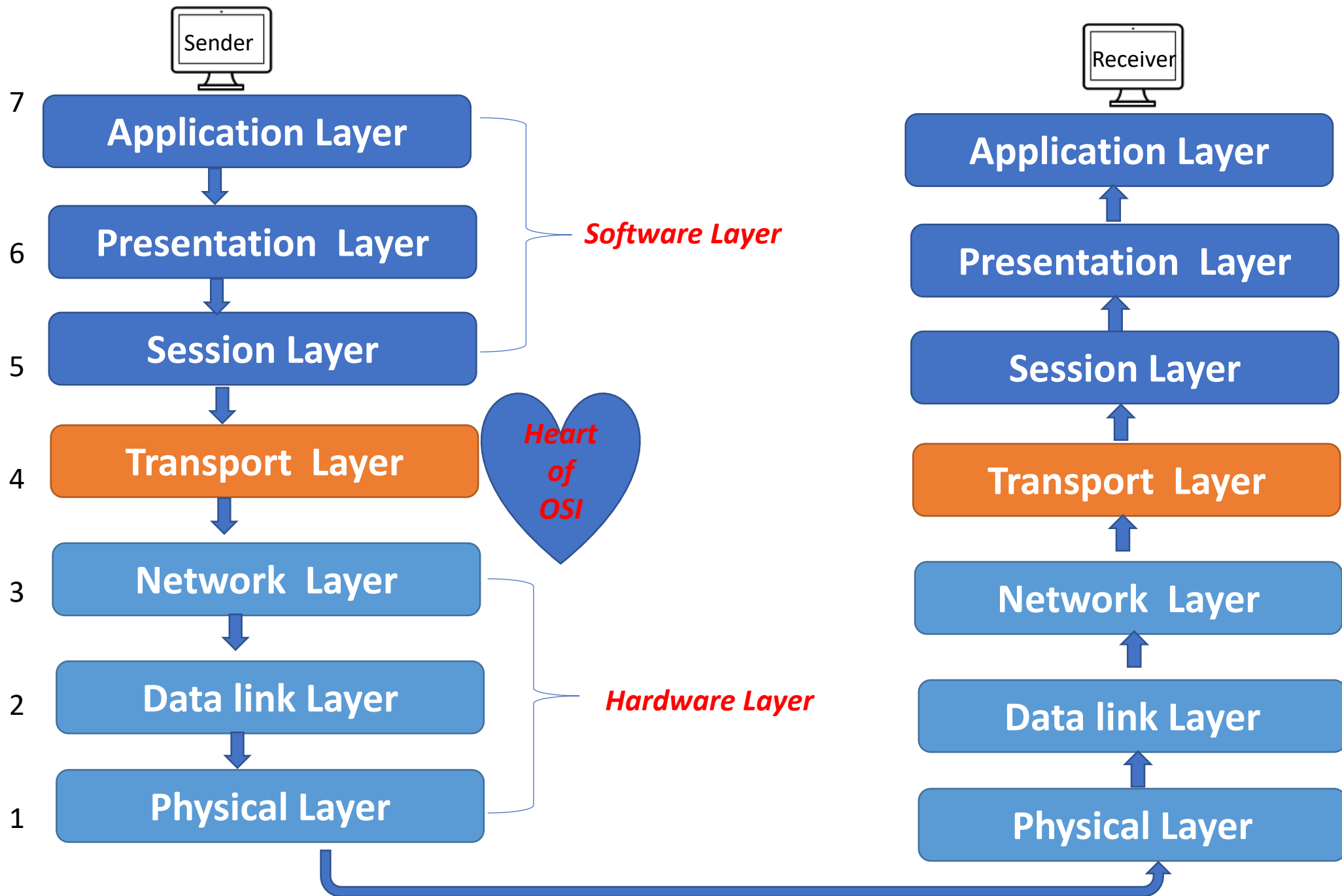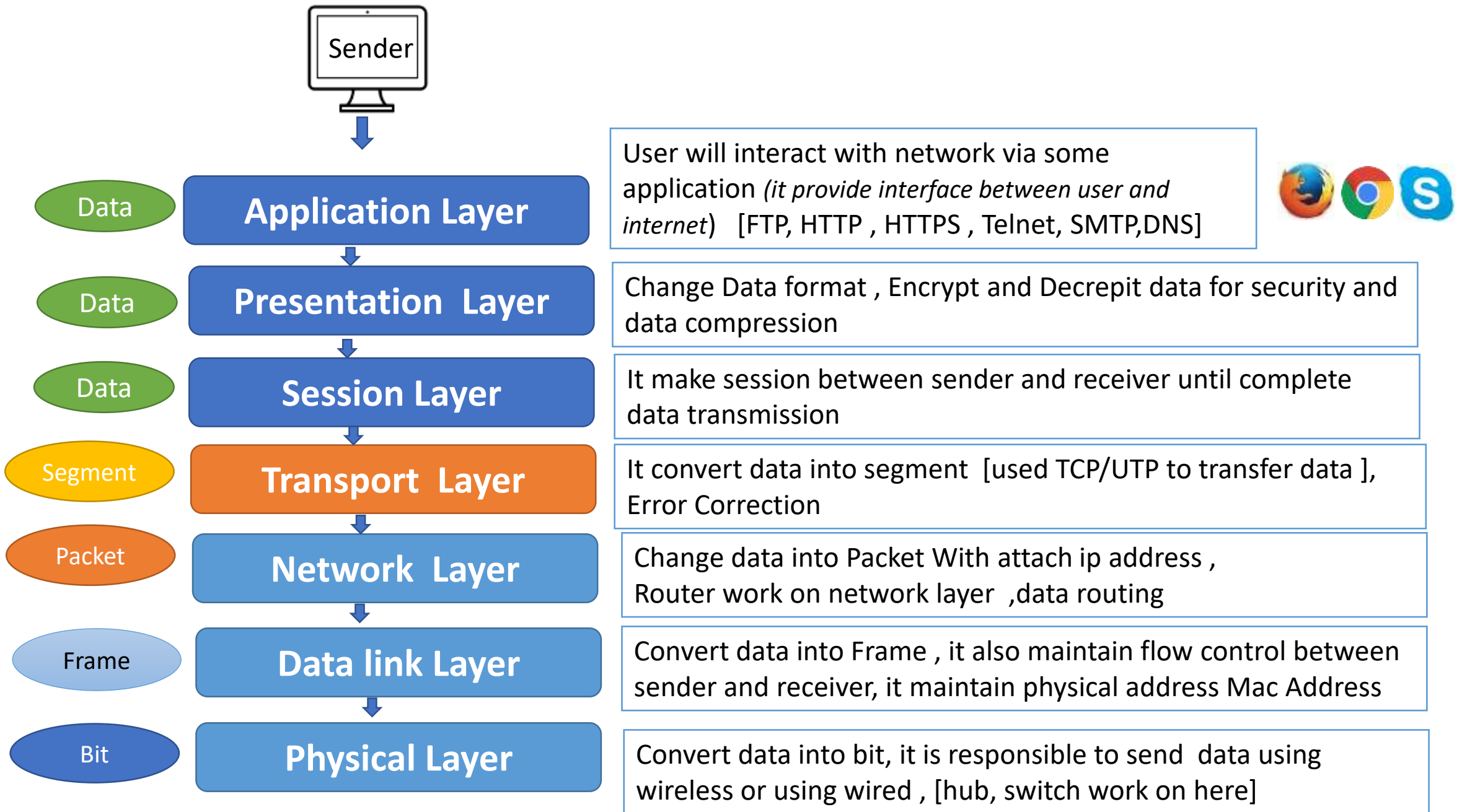# OSI MODEL

OSI Stand for "Open System Interconnection" Model , it has been develop by ISO (International Organization for Standardization) .

It is a 7 Layer architecture were each layer having specific functionality.
All the 7 layers work collaboratively to transmit the data from one network to another network across the globe .

The purpose of the OSI model is to show how to facilitate communication between different systems without requiring change to the logic of the underlying hardware and software .

Sender

Data	**Application Layer**	User will interact with network via some application *(it provide interface between user and internet)* [FTP, HTTP , HTTPS , Telnet, SMTP,DNS]
Data	**Presentation Layer**	Change Data format , Encrypt and Decrepit data for security and data compression
Data	**Session Layer**	It make session between sender and receiver until complete data transmission
Segment	**Transport Layer**	It convert data into segment [used TCP/UTP to transfer data], Error Correction
Packet	**Network Layer**	Change data into Packet With attach ip address , Router work on network layer ,data routing
Frame	**Data link Layer**	Convert data into Frame , it also maintain flow control between sender and receiver, it maintain physical address Mac Address
Bit	**Physical Layer**	Convert data into bit, it is responsible to send data using wireless or using wired , [hub, switch work on here]

Abbreviation	Full form	Abbreviation	Full form
NIC	Network Interface Card	ARP	Address Resolution Protocol
ISOC	Internet Society	NIC	Network Interface Card
ISP	Internet Service Provider	EMI	Electro Magnetic Interface
FTP	File Transfer Protocol	POP	Post Office Protocol
RJ-45	Registered Jack 45	ARP	Address Resolution Protocol
ARPA	Address Resolution Protocol Agency	ICT	Information Communication Technology
LED	Light Emitting Device	ADSL	Asymmetric Digital Subscriber Line
CDMA	Code Division Multiple Access	SIM	Subscriber Identification Module
MAC	Media Access Control	NOS	Network Operating System

THANK YOU