4	Computer Networking:
	7
•	The Enternet society maintains que protocole of the
•	Protocol -> . TCP: Transmission control Protocol
	Tip ensures 100% of data who reach its destination
	Protocol -> . TCP : Transmission control Protocol Tip ensures 100% of data who is reach its destination fit who not be corrupted on the way . Ceg-Enail
	UDP: When we don't care ? f 100%. of data reaches
100	UDP: When we don't care if 100% of data reaches the user of not. (User datagram Protocol). Eg. video conference
1	HTTP -> (Hypertext transfer protocol) wed by web browser, defines format of data to that is transfered, Eg -> whe how will server well sent back the data to client.
	browser, defines format of data to that is transfered,
	Eg - like how will server will sent back the data to
	client.
	Α Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ
	packets.
	pures.
+	IP address
	[ISP]
	(woden Router) Router address
1	
<u>Z</u>	Devices (D2) (D3) Modern gives devices a local
2 133	Company of the second of the s
*	If D makes a request to goode global ip will request to gagle
	If De makes a request to gogde global ip will request togogle. now modern gross retrous réquest to .bz.

+ IP address decides which devices to sent the data, but how we decide which application to sent the date (eg. prongo OB wants some files)? Any we do that wha Ports. -> IP identifies device, port Edent fies the application + HTTP Stuff is done on port = 80 can be generated 2 216 × 65000 0-1023: reserved ports · 1024 - 49152: Application port (eg SQL-) 1433) o Imbps -> 106 bits/sec · 1ghps -> 109 bits/8 1 kbps - 1000 bek sec ocens * Ou smaller level & computers are commetted to via LAN, + internet is coll of LAN, 6 MAN. WAN. * MODEM + deut a that converts dégrétal ségnal to analog signal ROUTER + devict frontes parkets based on le address. Trail Ist.

1_/__ · Ju mala key Tier 1 15P is TATA, Tierz are Arotel etc · TATA has submarine cable from chemnal to sing sing Singapore ...) OSI Model (Open systems interconnection Model)

OVUR!!! (asked in META) · Develop to standardize now two or more computy a connect to each other 7 layer Model: (i) Application layer (ii) Presendation layer (V) Networklayer (ii) Session layer (iv) Transport layer (vi) Data link layer (vii) Physical layer Sumarization: User sent data in application through application (ayer, it is implemented in software. · Data is transferred to transport cayer presentation layer, presentation layer converts the data into machine suadable binary language (translation), embeddation, encryption, abstraction, SSL protocol these things occur en presentation layer Bession (ayer + helps be settling and managing connection and enables sending & recieving of data, anthontication & authorization takes prace. Eg session is created when order is placed to payment option.

/	/
 /	/

Occurs Pn 3 parts (?) Segmentation: data recieved from sogment sersion layer is broken into packets caused segment. Every segment contains recievers port number and sequence number

Retwork layer - fransmission of recieved data segment from I compute to another that is located in a different network. Router lives in Network layer.

Network (ay er assigns sendens and recever's ip address to every segment and form an IP packet, so that every data packet can reach correct desphation.

Acad control also occurs in Network layer

Data link Cayer - allows you to communicate with the complete host, received data parket from network cayer, but link layer does assigning

(i) Cognical assigning (ii) Physical addressing: what

MAC address of sender and as revies

is assigned to date packets

Physical Cayer - data from above is received, convert st into