A	Prication	
PX	rentation	
51	ssion	-
78	ansport	
	twork	
De	eta link	
	Iskal	

Application: softwee inhant of user.

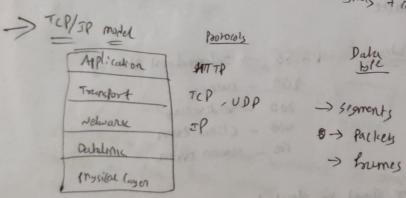
the may (Trunslation) => encoding - encryption - compress ConVent

sosten: Help in connection, authentication + authentication

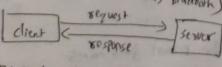
Transport: polonois came have (how date be transfored) + segment of data + thus could rehour;

souther & used to comm to other No + logical addressing + Packet

Pala (ink : ( photos adres (MAL addres) + frame Physica - Hardware section + bills + electrical signals + lables

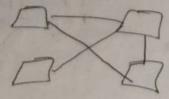


\* Application = users interret ( (4: whatap, Bluckooth)

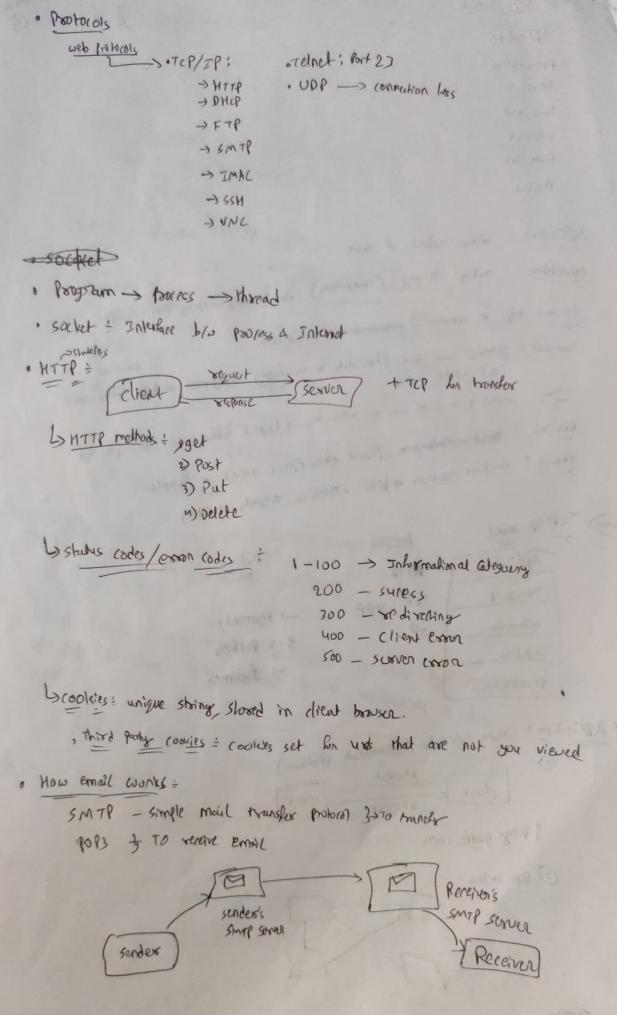


& Ping goods. com

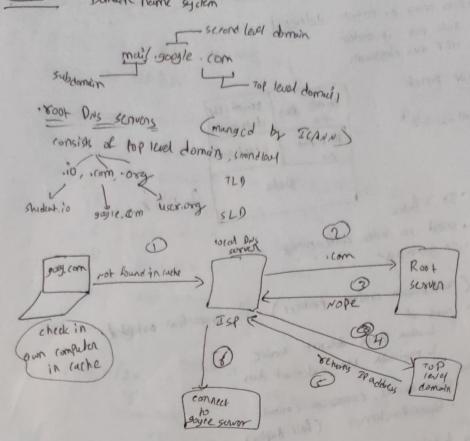
2 Peen to Pear

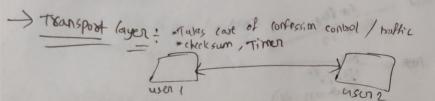


Repeature, Hub, Bridge, switch, Router, galeway, Browler



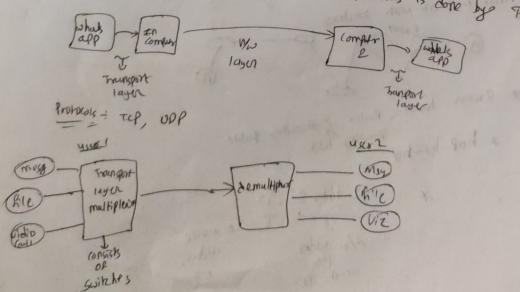
pusher vision. Islan should dull a terrologo





} dig google.com

Achae brunsfor of one completer to another is done by retwork layer but transfort of data from network to the applications is done by Trunsport



switches has fort numbers to determine to which application.

LOUDP Packet sounce for 70 ml size = 216 Dest. Port Dala · It is Paster , used in video conferencing capts · In gaming \* TCP (Trus mission control protocol) = connection ostended Luken data doesnot arrive L morning the order of data · De heators: . error conhol, congession conhol , Riseu Bisectional (full duplea) 0 = 3 way handshake elient synflag server STATE Man links ACK (math on 32 = 88) ACK SAN ANDROS OF TO TO THE PARTY TO THE Ack of decided month whole to tropper Nelwork layer shere we work with soutess \* Routers hower , Routing hable trubble \* hop-by-hap ¥ 192.168.2.30 - devile N/w address sword SD uddress 4057-5P

\* UDP (user dalayram protocol): connectionless

· Dane may or may not delivered.

· Pala not in orders · UDP uses theeksums.

Internet publical (39)

IPV4 -> 32 bit, 4 words

IPV6 -> 128 bit

class A class B das \* class of IP address

clas A 0.0.0.0 - 127,255.255.255

B 128.0.0.0 191.

L 192, 0.0,0 223. D

224.0,0,0 239.

€ 240.0.0.0 -255.

\*Subject masking

192.0.1.0/24 mouns > Slart end T 192,0.1,0 32 bit - 8bit

192.0.1.255 (normally that 256 Phit = 1 m \* Researed add

127.0.0.0/8

1001 host: 127.0.0.1

Dahe Bolink layer

It her device makes -Drick server Dynamic host configuration potobolog

Pool of 1 P addres

## > Networking 11/18/ 400 : 531/6

- · computer N/s is a communication blus two cars more N/s interfuces
- o components of computer N/w =

- · OSI model.
- · LAN, MAN, WAN yo classication of Ma by geography. CA2, 8A2
  - o switches -> connects multiple computers to gether
  - a Rowers -> connects multiple Nos together
  - , Home 1/2.
  - . Il address (IPVu, IPVo) -

Publisher IP > Class A Class B Class C Class P class E

(lass A -> 10.0.0.0 - 10.255, 255, 255

class B -> 172.16.0.0 - 172.31.255.255

Class C -> 192.168.0.0 - 192.168.255.255

· Probals = Defines protected that bload when hours mitting or becents duta,

connection oriented L) TEP & UDP connectionless

ele

TFTP en

a probolds & Port number

label on l	service name	numbers included
DMS	pomain have somile_upp	UDP53
DNS TEP	11 11 11 - 768	07CP 53
HTTP	web	TCP 80
HTTPS	secure web (ssz)	TCP 447
SMTP	Simple mail transport	71725
PoP	post other proposed	TCP 104, 110
SMMP	simple 1/2 mangement	TCP 161, 162; UPP 161,162
TELNET	Telnet Terminal	T(12)
FTP	File burshin Androws	t CP 20,21
55 H	secure shew (torminal)	7(1) 22
AFP ZP	APPLE FILE BODOOI/JP	TCP 427, 548.
		out the state of

## · TIP IP PODDIO1:

o pelworking commands.

Liftontia > show allive interfures (on) ip adds show

Lyping 192.168. ... y of Packets are sending continuously means so that we for understant it is recovered a tourishing.

La tracest www.google:in 3 used to know how Rachell going

Lynetstat -ante 3-> show all TCP open Poss. to soven from host.

Ladig Lo nslookyp Ly route -n Lytelnet Larp

4 mEx