

Selling is an art.

Everyone should know.

How startups work.

Build
a product

market

Sales

77807 34983

WA:

To learn about startups

Send
a message

volunteer

no paid jobs

online also

learn
online

I will explain
what we are doing.

give ideas

I had startups.

I am working on startups.

If anyone interesting in learning, you can come.
no position. If you want to watch and
learn. You can come.

if you have any ideas

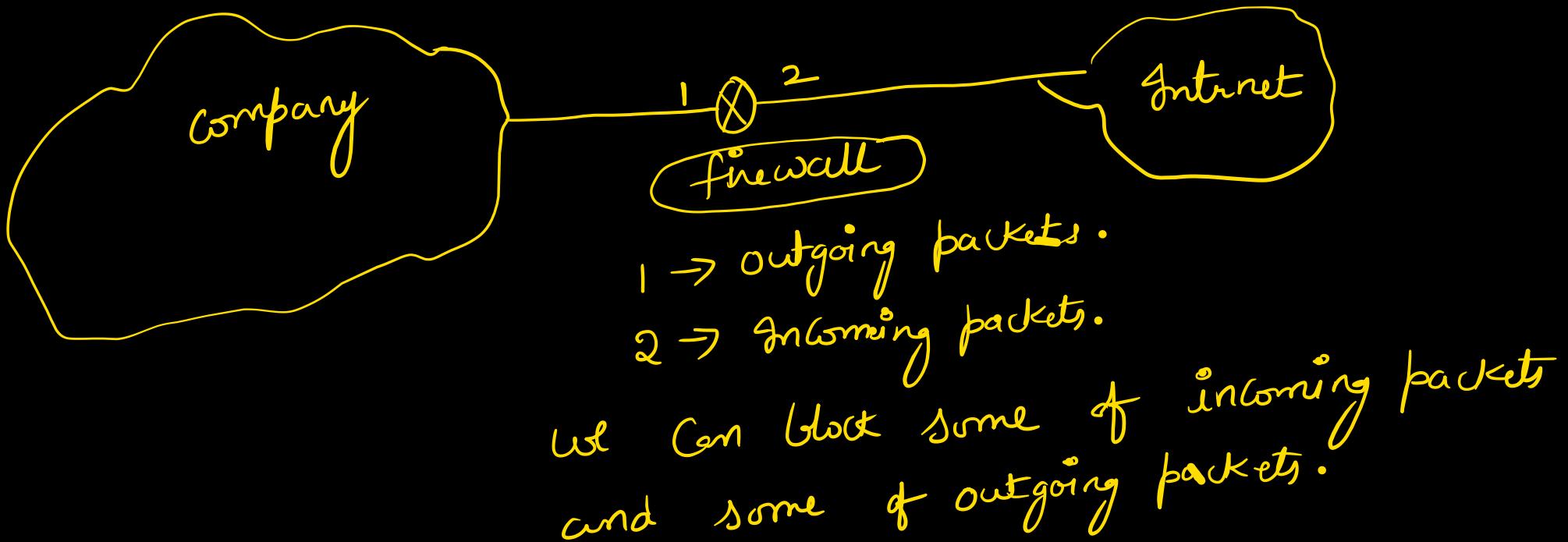


we will guide you.

Learn how to build startups.

Just for fun.

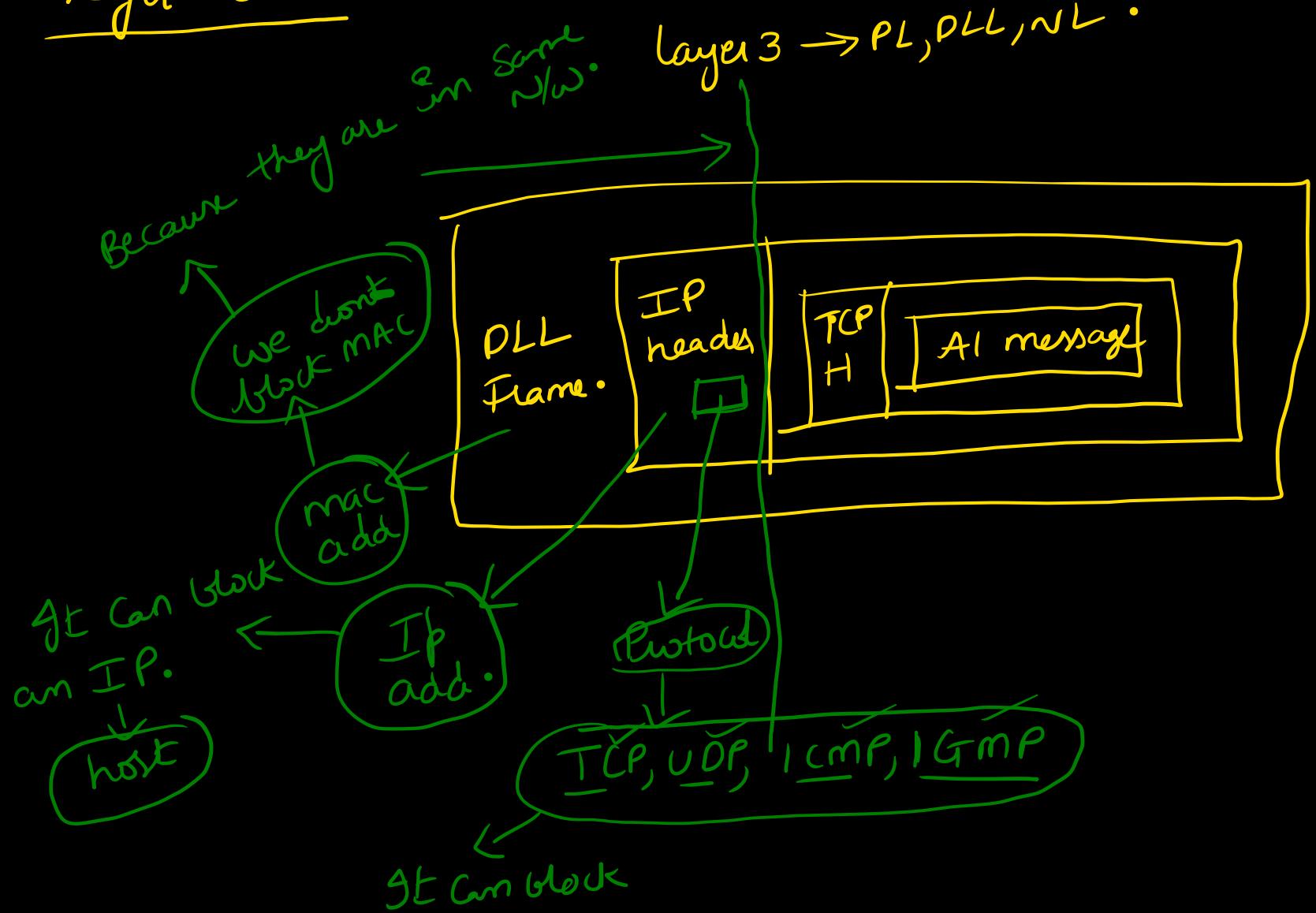
Firewall:
Fire wall.
↓
Protection.
↓
Stopping.



Types of firewall:

- layer 3 FW or packet filtering \rightarrow FW (PL, DLL, NL)
- layer 4 FW (PL, DLL, NL, TL)
- (layer 5 FW) (PL, DLL, NL, TL, AL)
 - Proxy FW

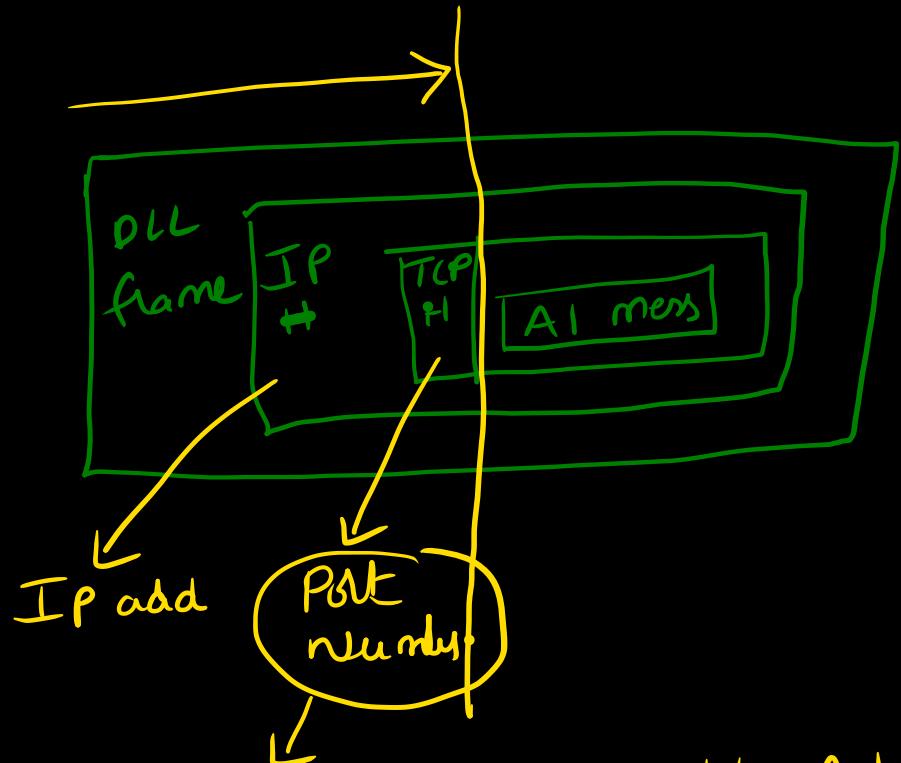
Layer 3 FW:



HOST
Δ TCP Δ UDP Δ ICMP Δ IGMP
Δ a combination.
like (TCP from 11.1.2.3)
✓ (UDP from 900.1.2.3)

Layer 4 FW: PL, DLL, NL, TL

gt can do all functionalities of layer 3 + extra.



→ gt can block IP
→ gt can block Port
→ gt can block a port
on an IP.
a Service on a host
can be blocked

IP

host.

port

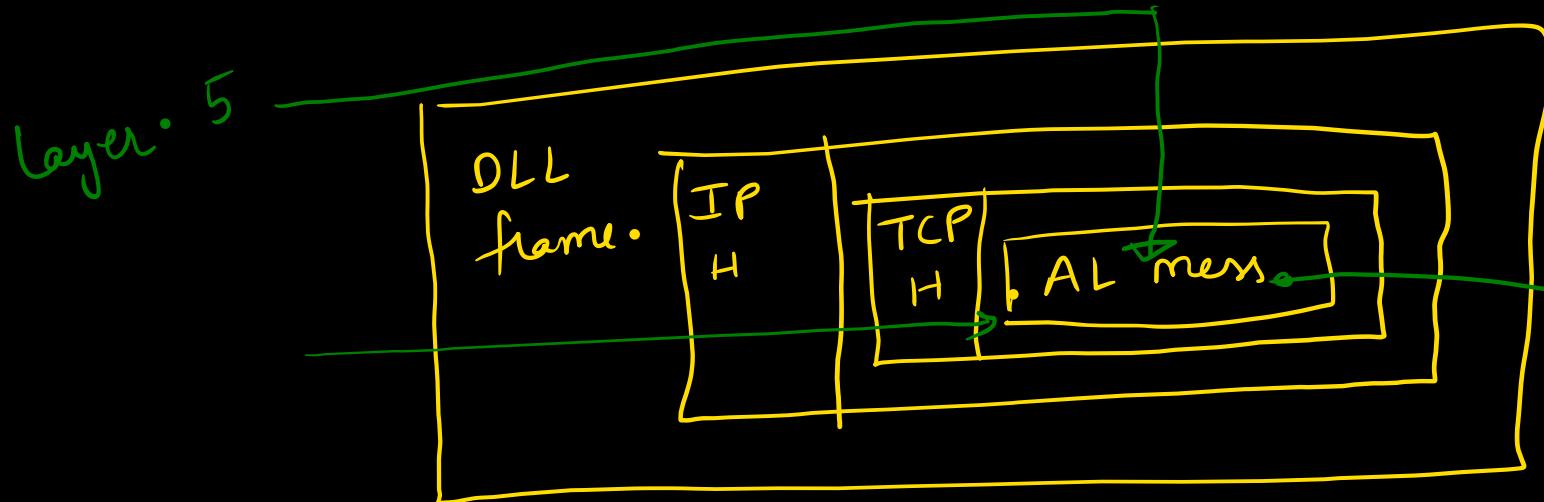
Service

can be blocked

layer 5 Firewall & proxy FW:

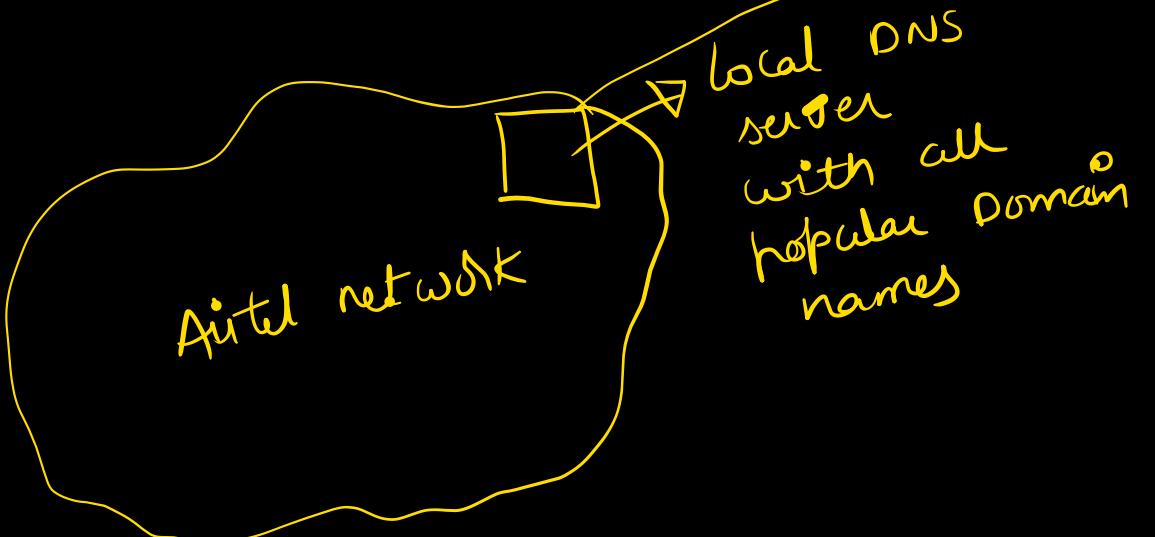
layer 4 capability + extra.

∴ It can block
a user
&
a service
&
a host
&
any combination.
UN & password



How do you look up for IP's?

who will say?



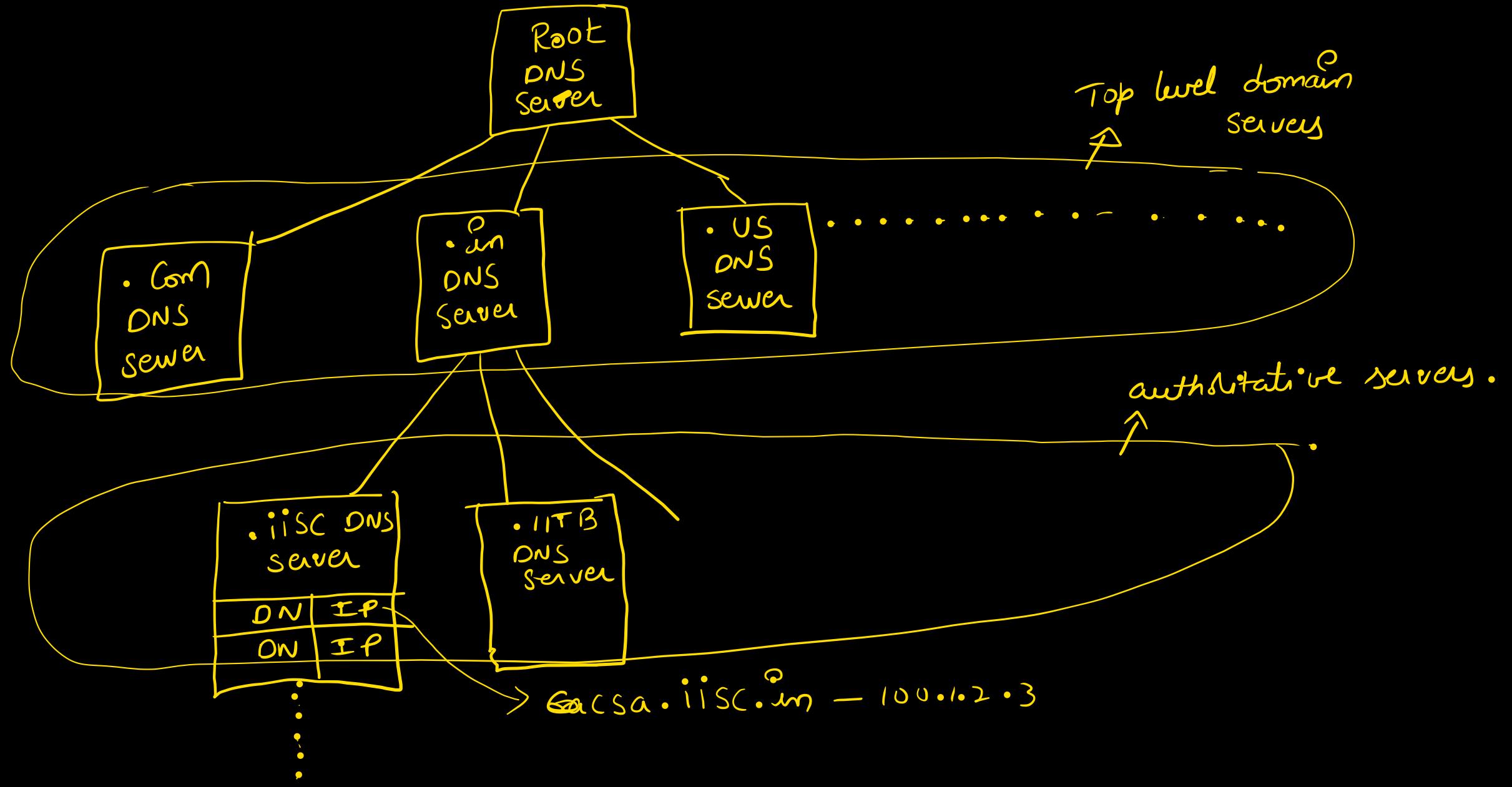
Root DNS server

maintained by IETF
Internet engineers

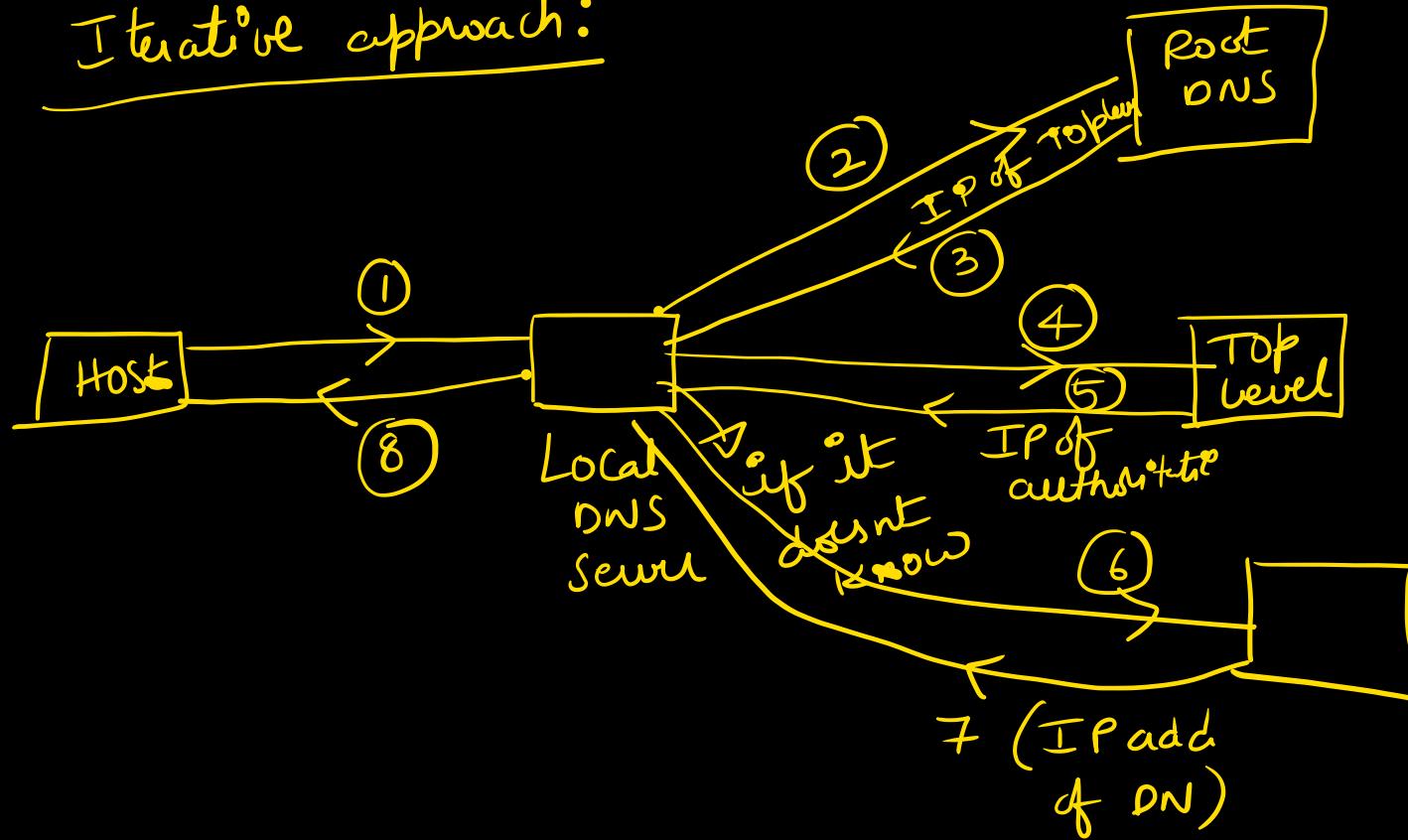
There are 13 Root DNS servers in the world.

Force.

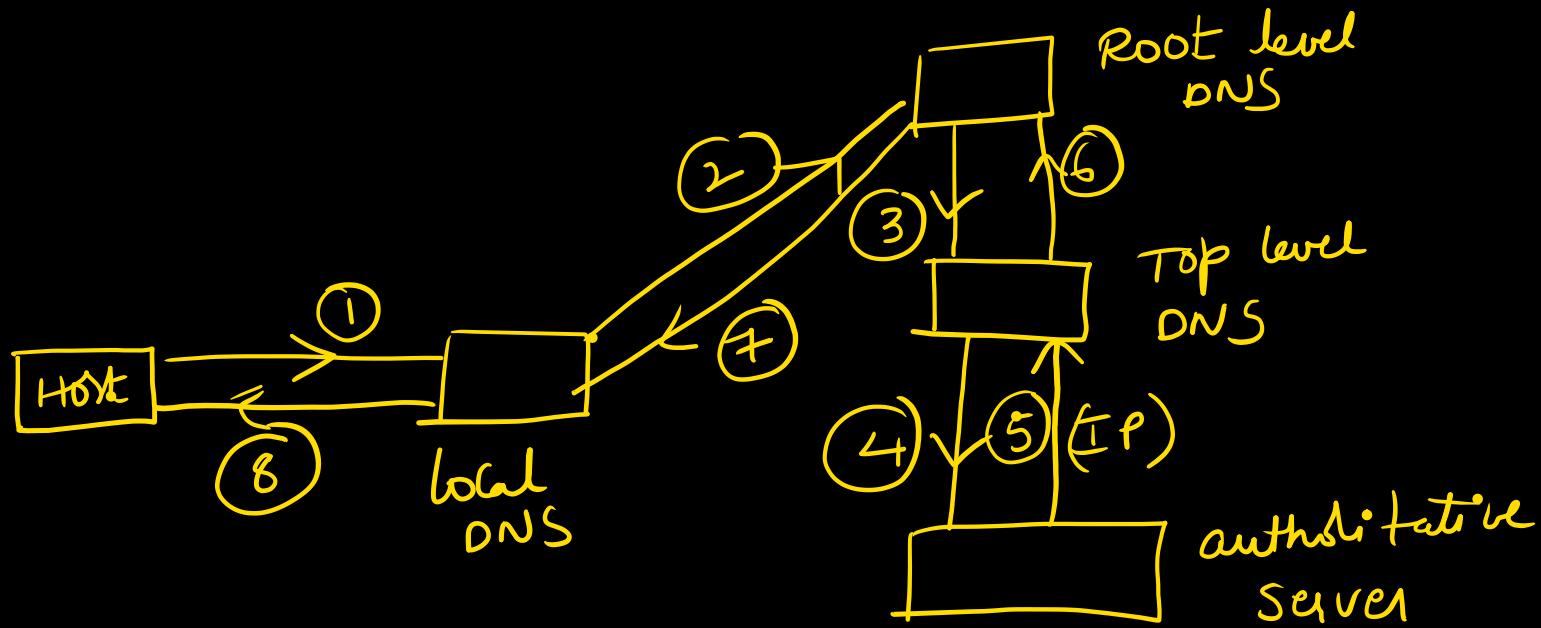
Task



Iterative approach:



Recursive approach: ✓



* DNS uses UDP at TL • (Single request, Single reply)

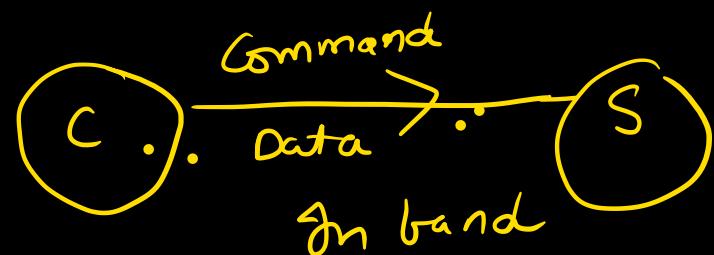
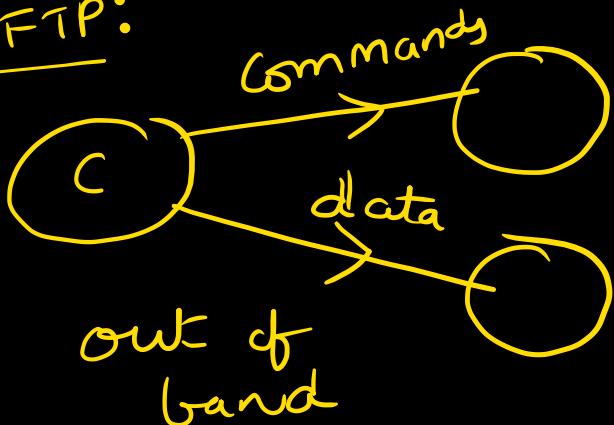
↓
* port number 53:

HTTP (Hypertext transfer protocol):

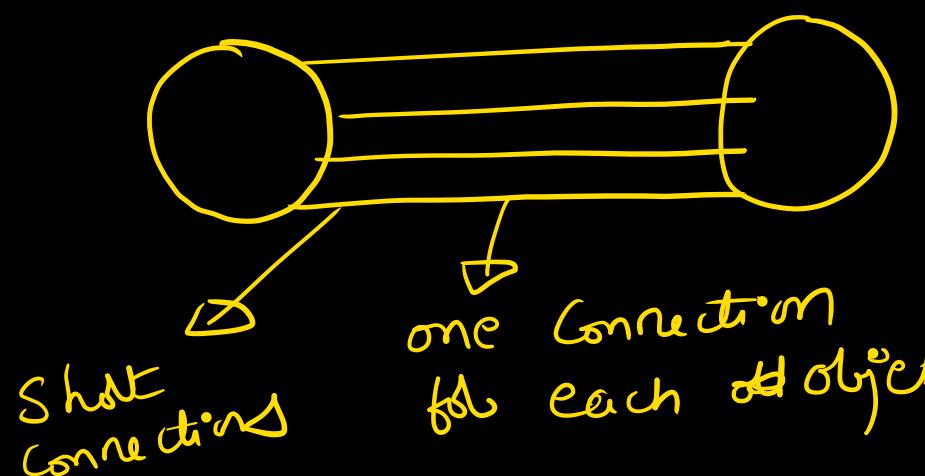
(HTTPS) ~~x~~ note in syllabus.

- used to get webpages.
- HTTP needs reliability → it uses TCP.
- port number is '80'.
- HTTP is inband protocol → Both commands and data uses same connection
- HTTP is stateless. → it doesn't remember anything about client

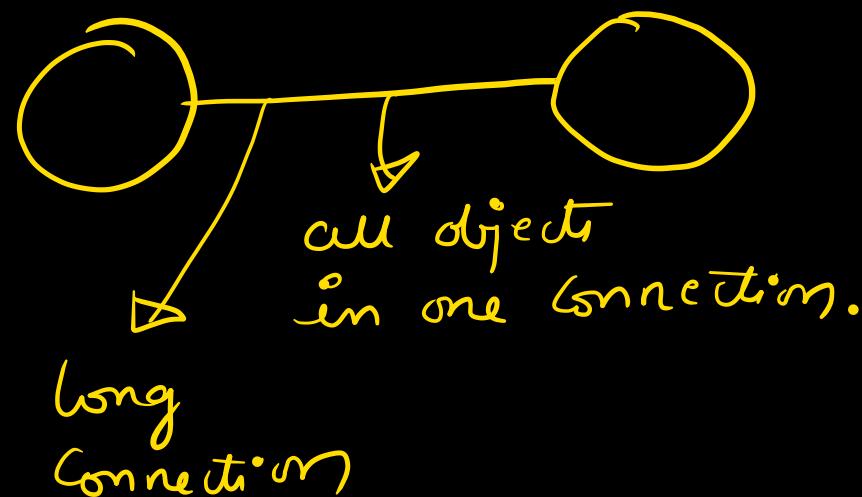
In FTP:



HTTP 1.0 ↳ non persistent



HTTP 1.1 ↳ persistent



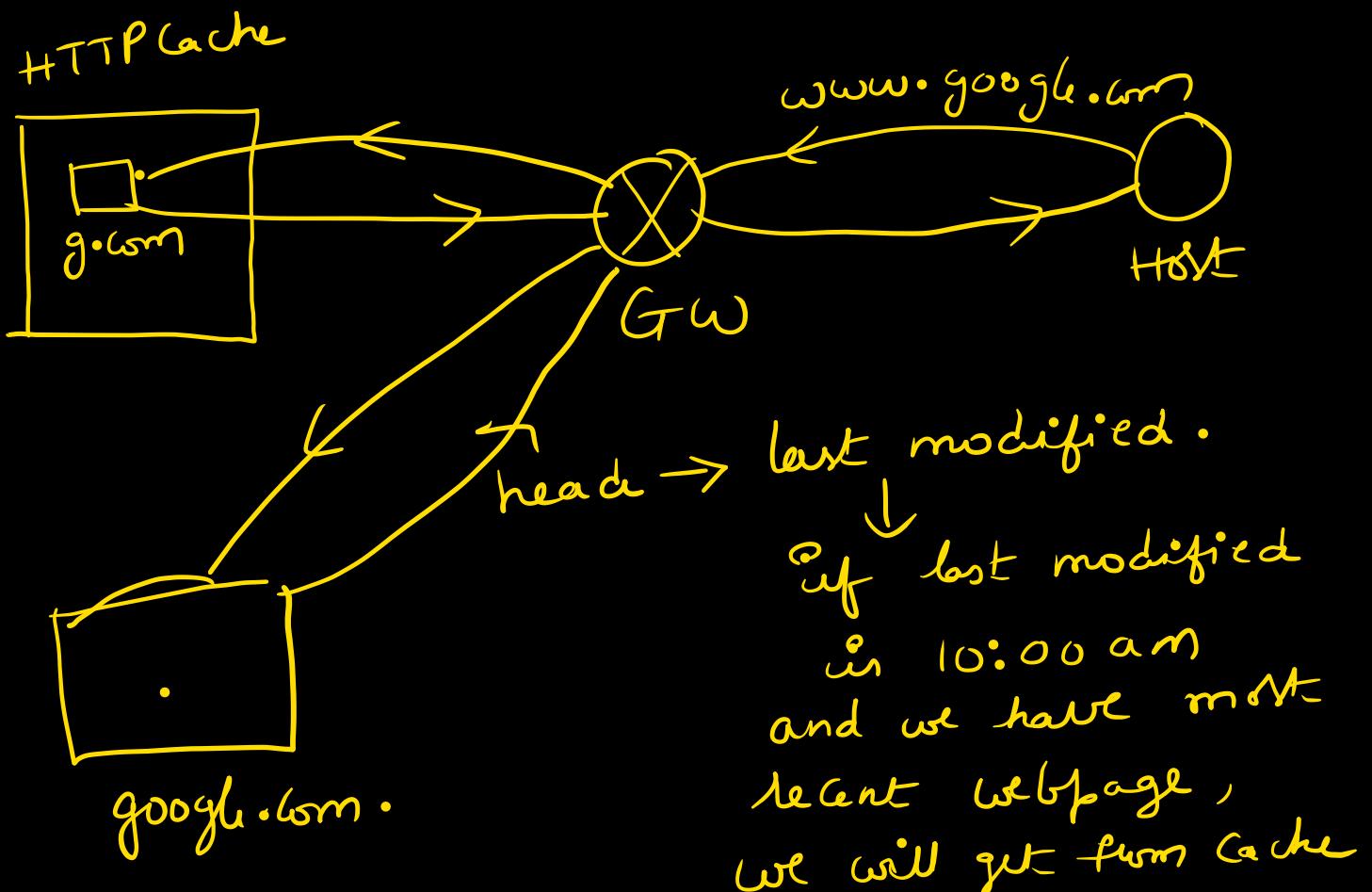
Imagine there are one html and 3 images
Total 4 objects to be downloaded.

Methods supported by HTTP:

- 1) Head → get metadata about webpage
 - 2) Get → get the webpage
 - 3) POST → ~~fill form~~ submit data like filling a form
 - 4) PUT → upload object
 - 5) Delete → delete an object
 - 6) Trace → Trace from ~~to~~ where data is coming
 - 7) options → find ~~&~~ what methods server is providing
 - 8) Connect → not required.
- may or
may not
be provided
by server.

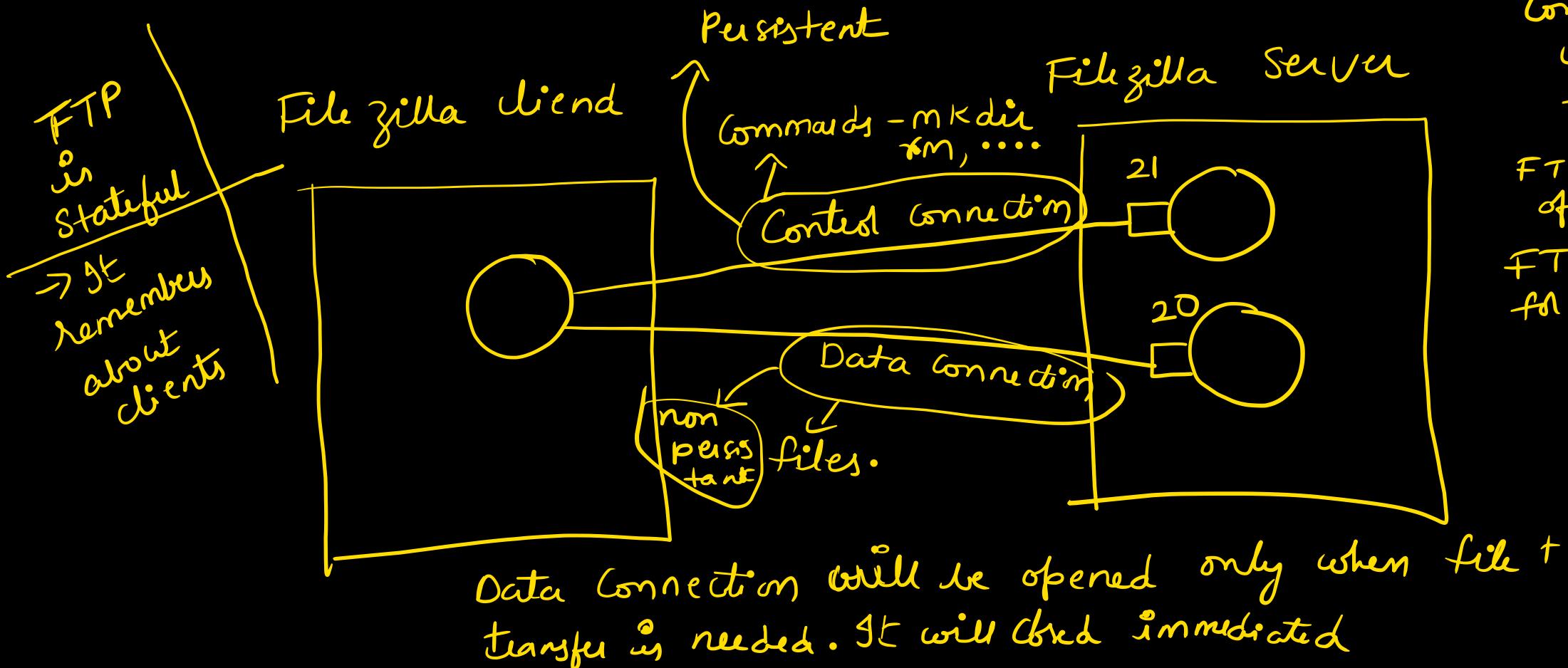
Generally ISP uses web cache / HTTP Cache .

Caching is
not done by
all ISP's.



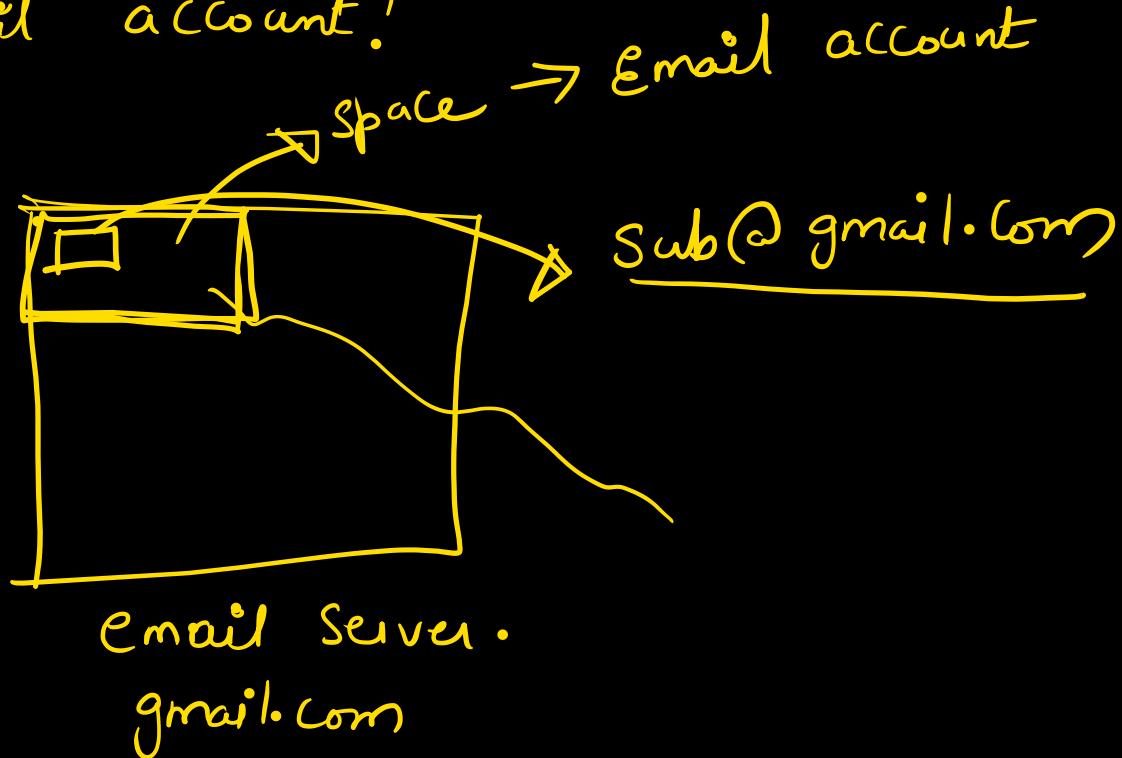
FTP (File transfer protocol) → To transfer files.

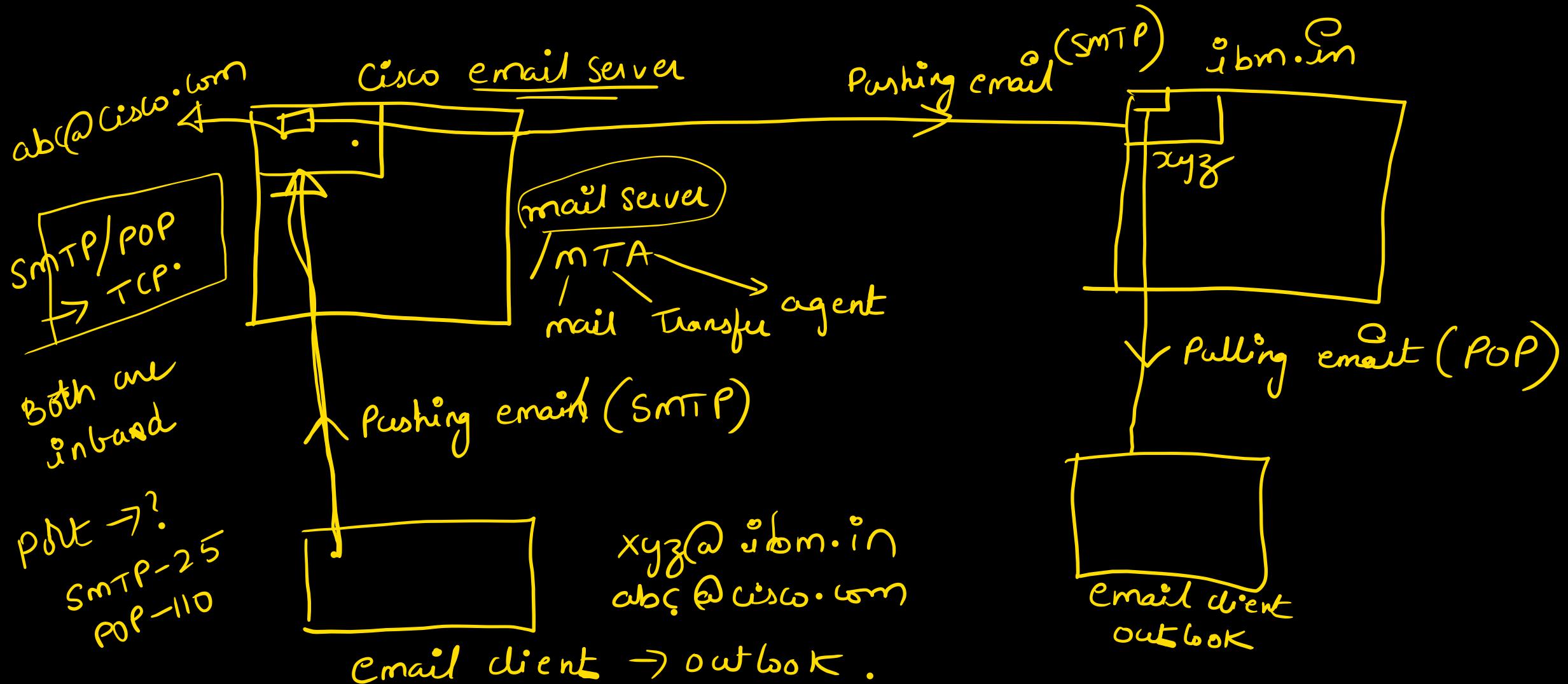
FTP - client , FTP Server . Ex: Tectia, Filezilla



SMTP and POP: → emailing.
Hot mail

what is email account?

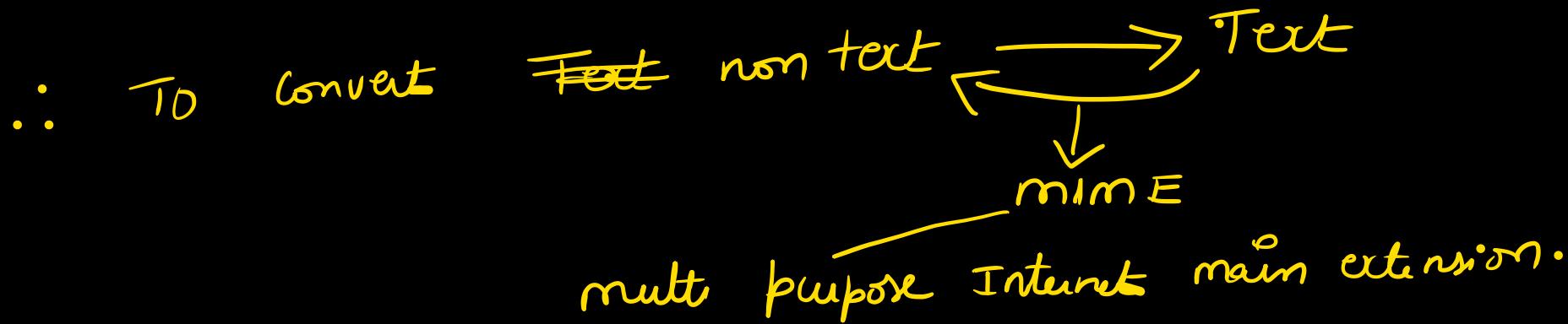




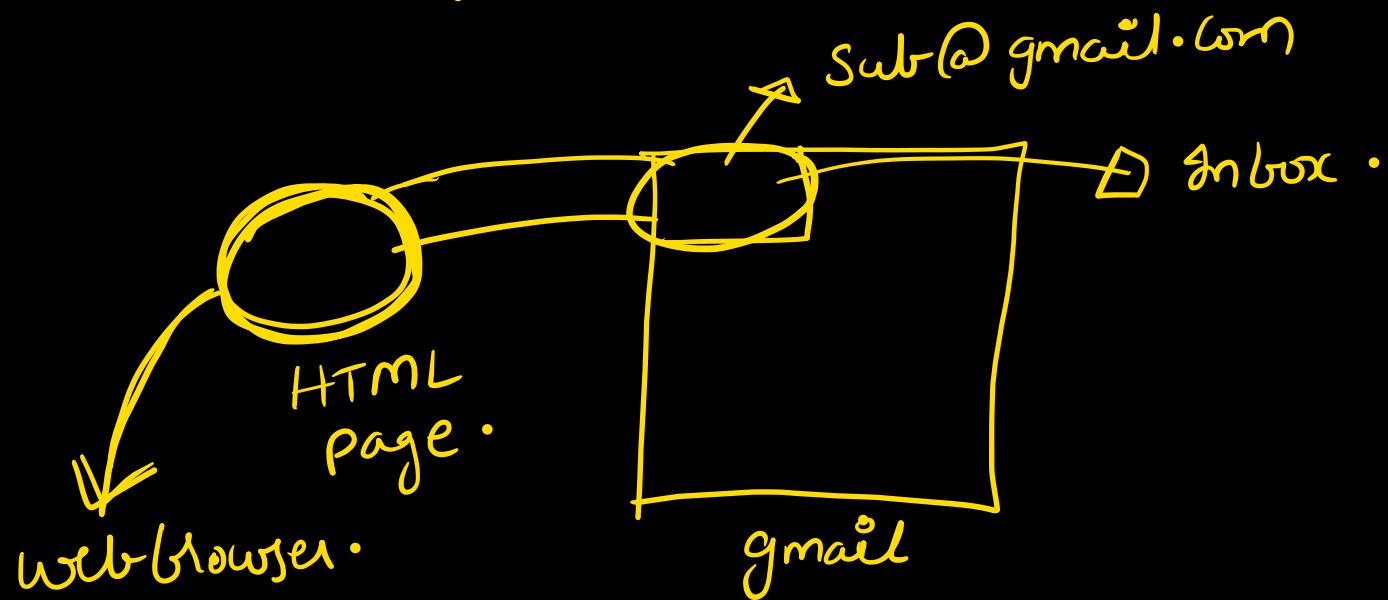
Initially emails are used only for text.

But now even non text data is transferred.

like Pic, Videos, code etc.



But Gmail is web based email → not for gate.



∴ no need of web client.
↓
Browser.

95%
↓
100%

CN is over.

we will solve PYQ.

9th → OS ✓

8th → holiday.