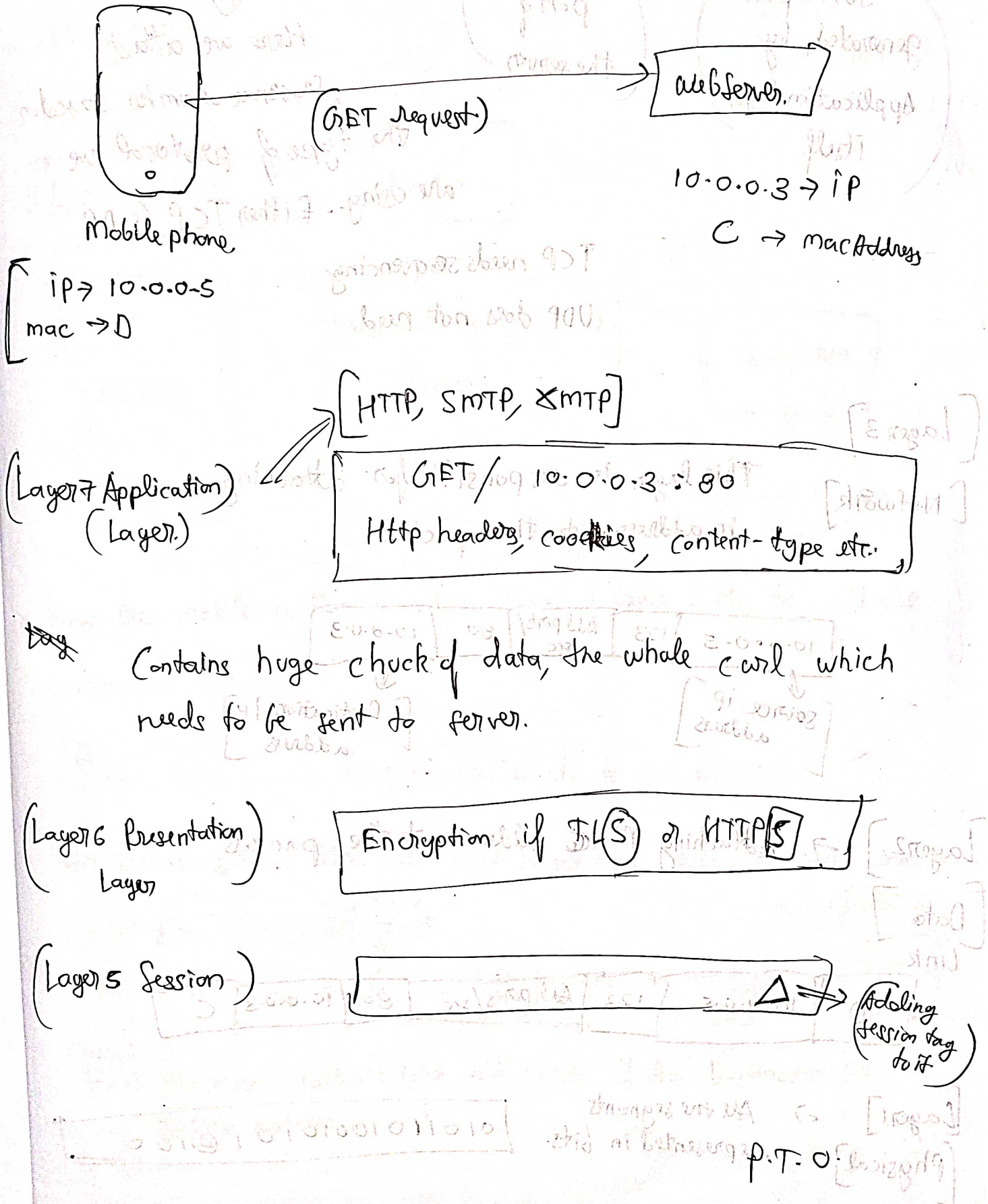
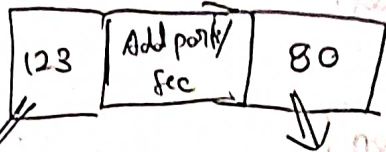


(Video-3) OSI Model.

OSI \rightarrow [Open System Inter Connection]

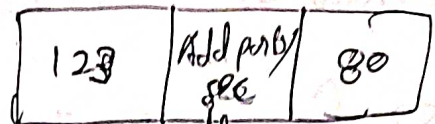


[Layer 4]
[Transport]



Source port generated by Application layer itself

Destination port of the server

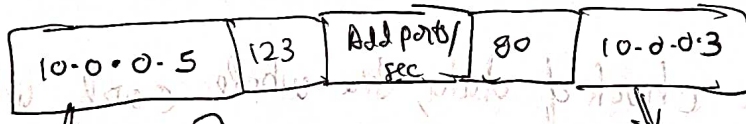


Here we attach sequence number based on the type of protocol we are using. Either TCP/UDP.

TCP needs sequencing
UDP does not need

[Layer 3]
[Network]

This layer is responsible for attaching ip addresses to the packets.



Source ip address

Destination ip address

[Layer 2]

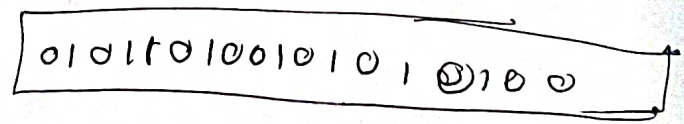
→ Attaching MAC Addresses to the packets

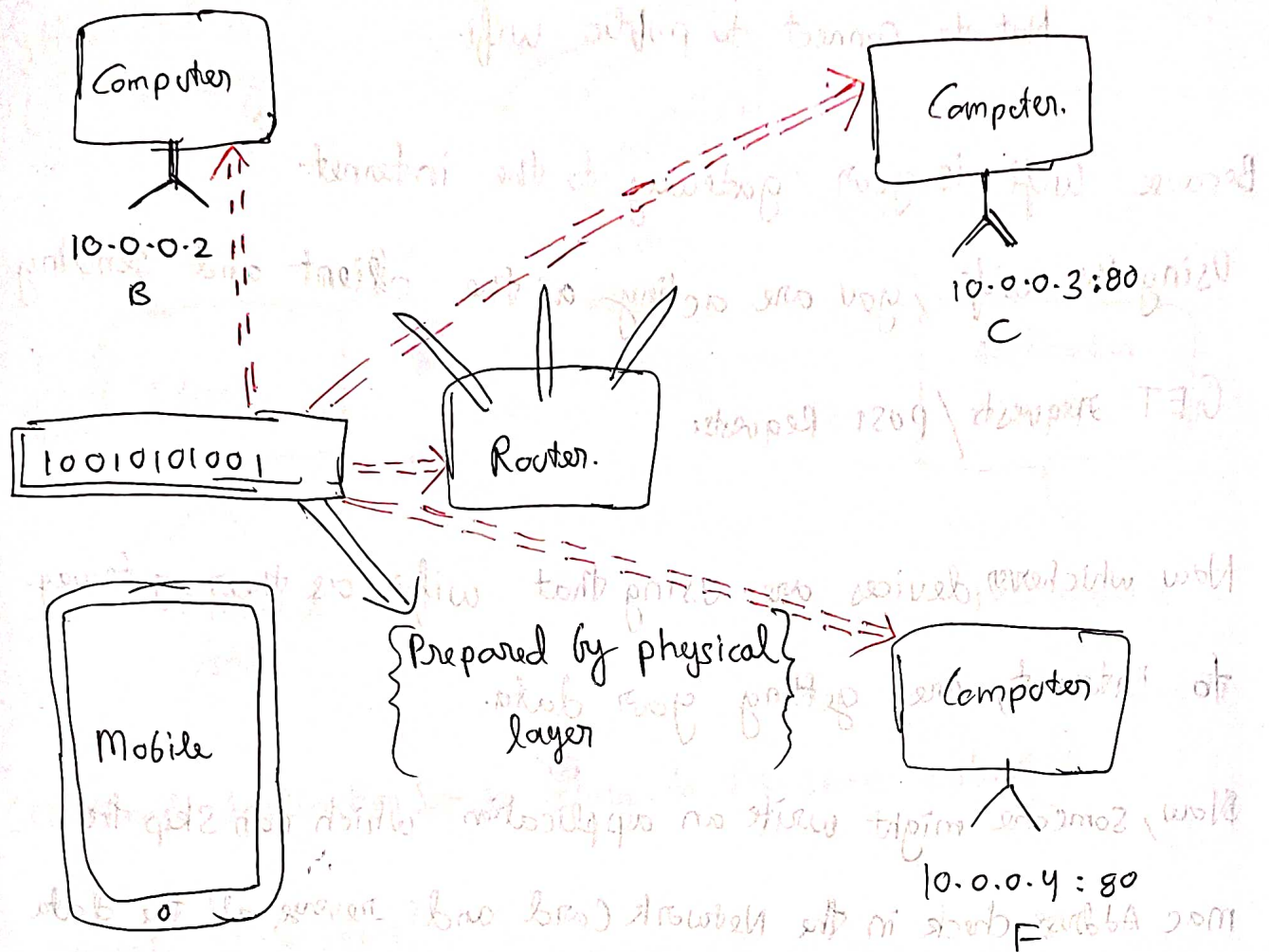
[Data Link]



[Layer 1]
[Physical]

→ All the segments represented in bits.

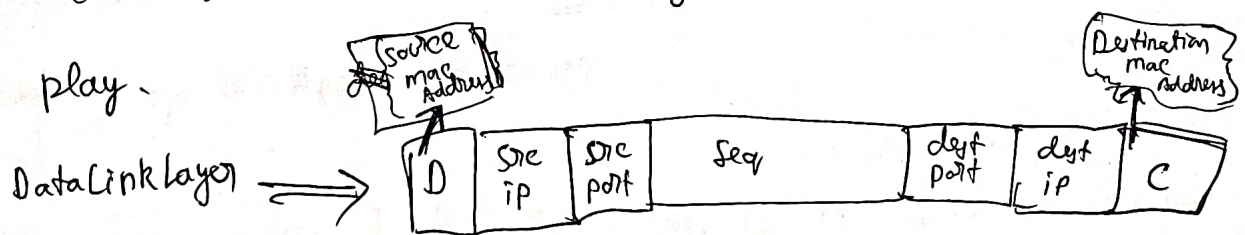




* Now the mobile will span the physical layer data to all the computers/systems.

Q) But that means everyone has access to my data?

(A) Here is where the Data Link Layer and Network Card come to play.



Each Machine's Network Card will check if the Destination mac Address matches or not

