

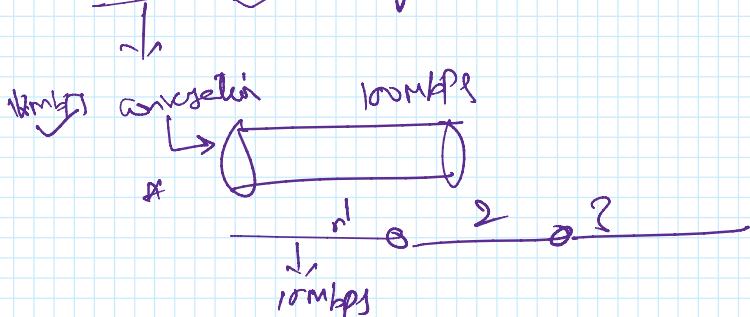
Lecture 3

10 August 2021 17:02

- Recap -

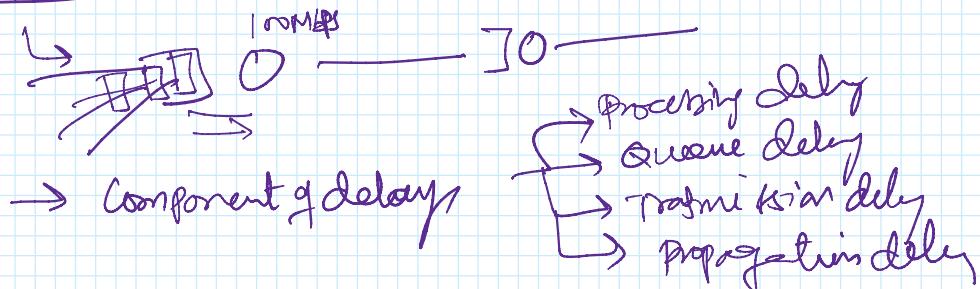
- Throughput
- Trace route \rightarrow www.google.com
- Review different layers of internet protocols.
- Application layer.

Circuit Switching & Pack switching

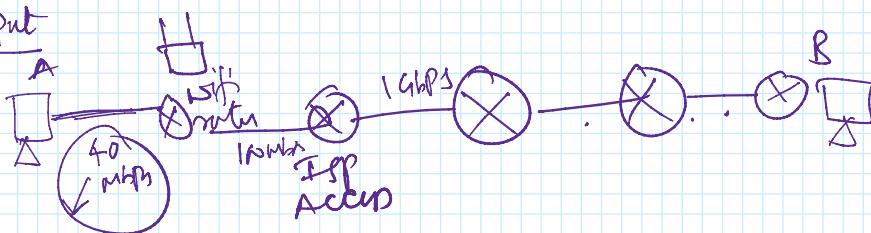


Bursty
10 ms
35 ms
 < 0.01
Probability

Packet Switching



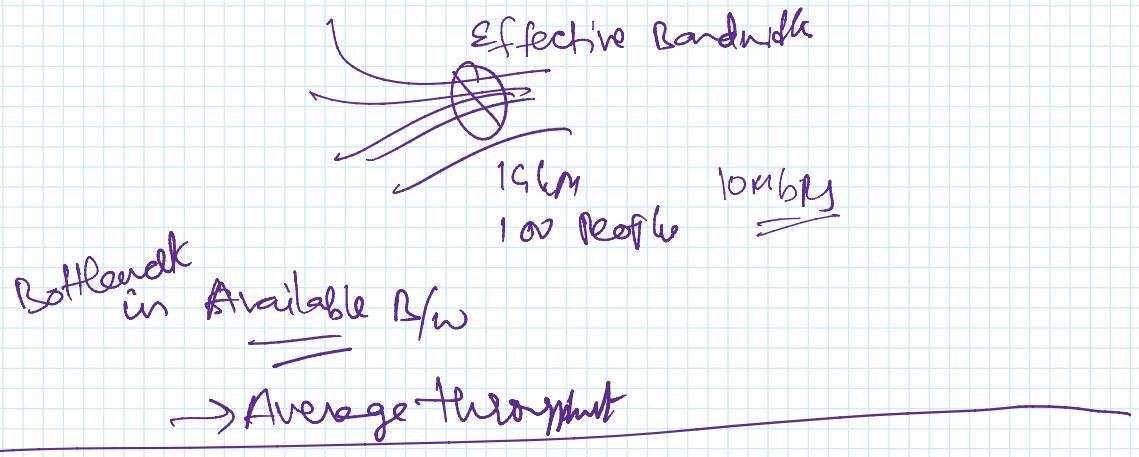
Throughput



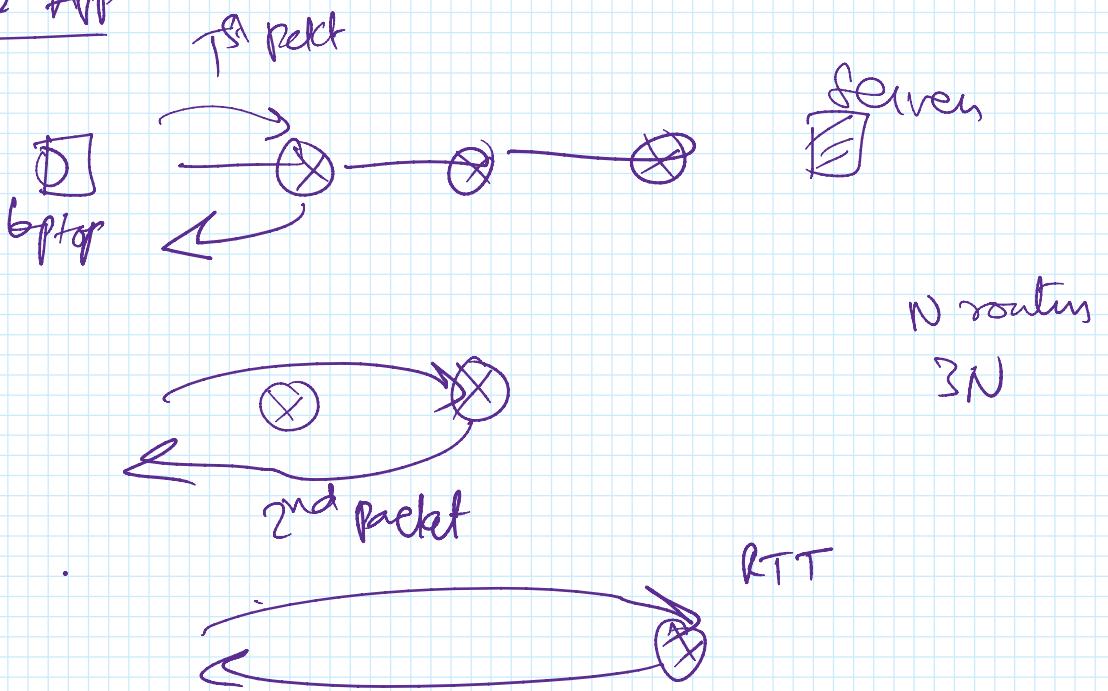
End-End rate

$$\min \{ R_A, R_C, R_{C_2}, R_{C_3} \}$$

Effective Bandwidth



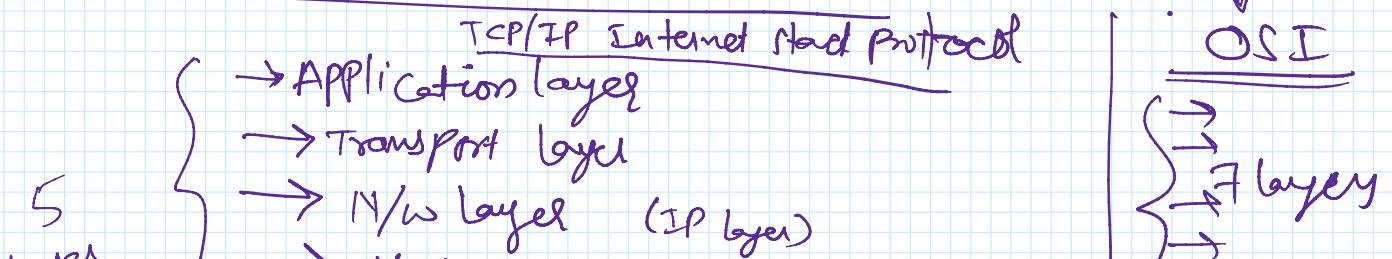
Trace Route APP

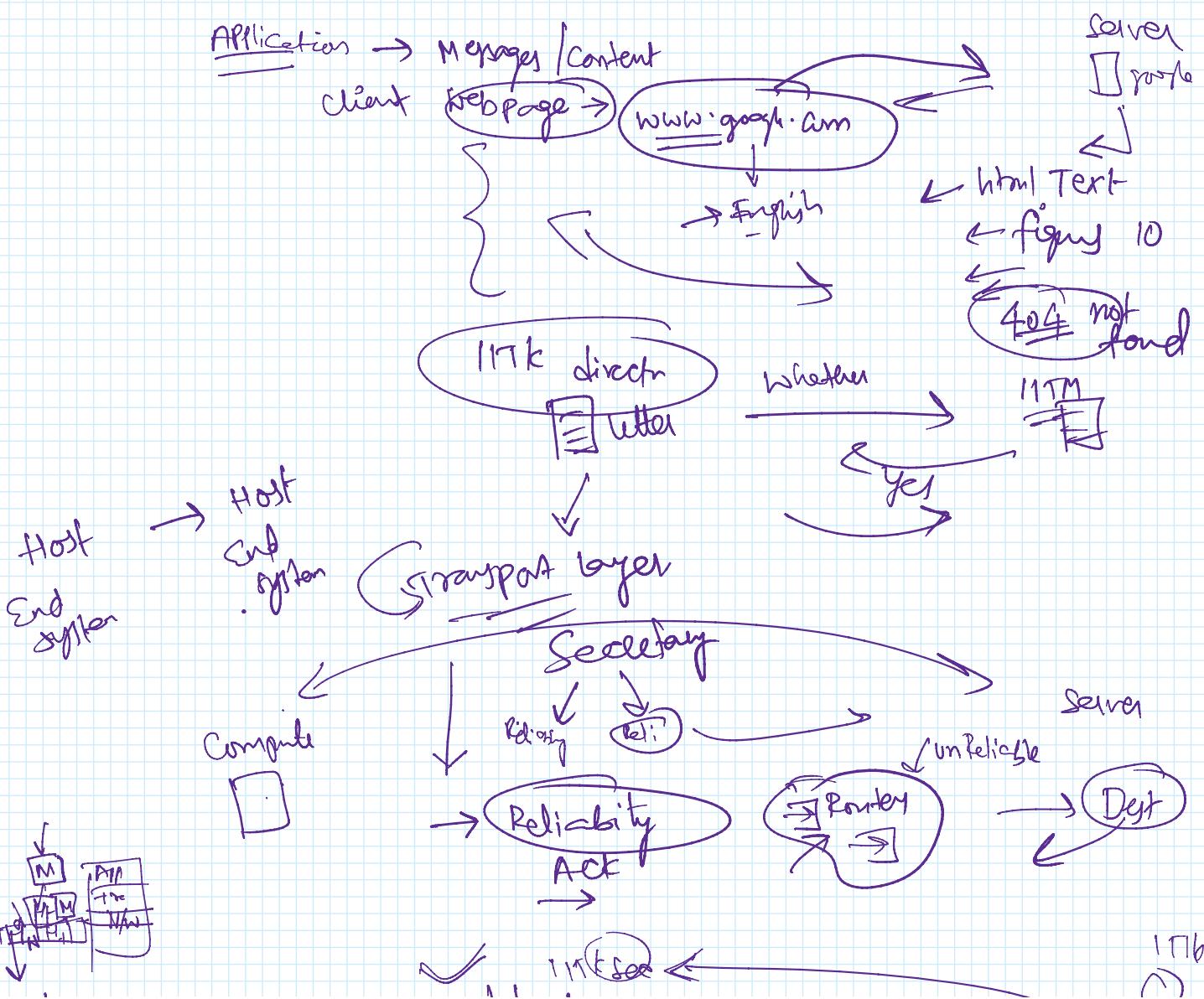
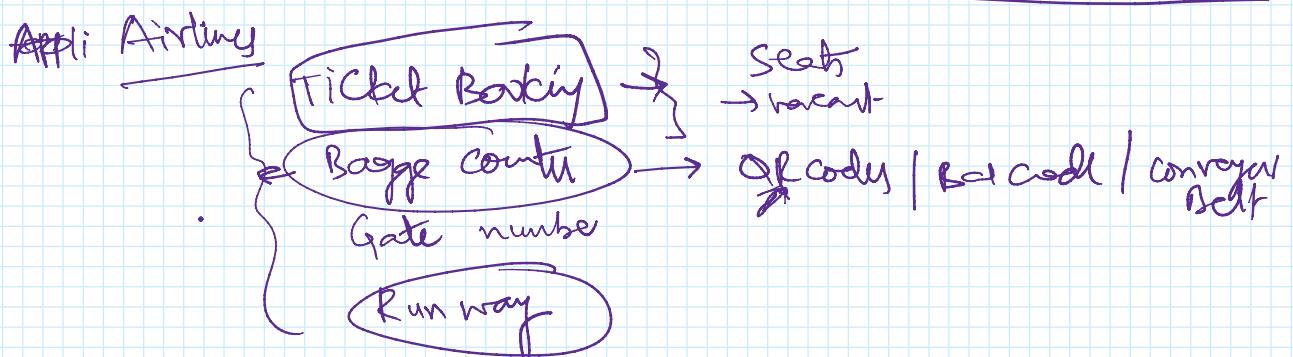
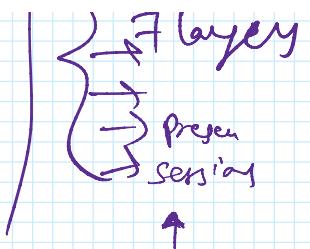
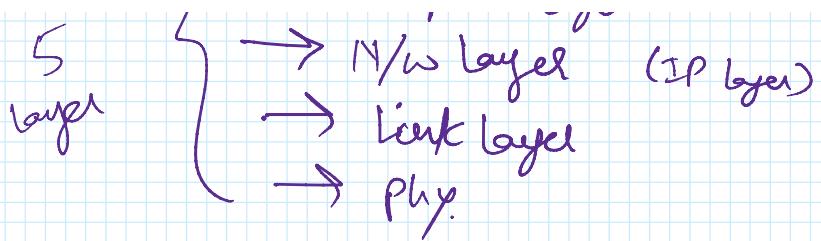


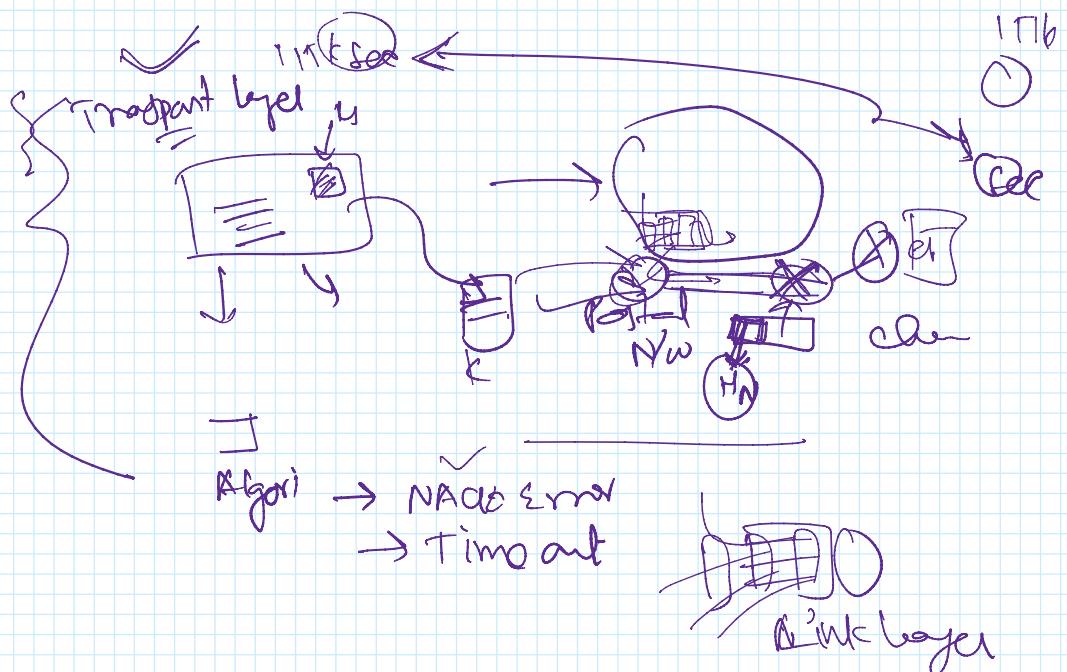
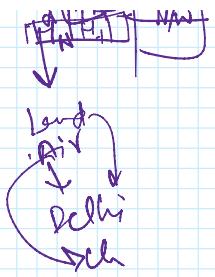
Book Download

→ Wireshark → Website of book

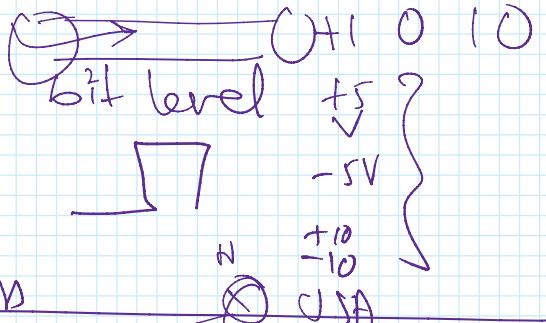
Layered structure of Internet Protocols







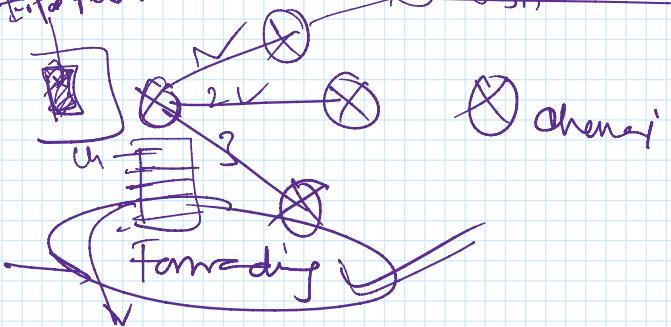
Physical
layer.



N/w layers



IP address



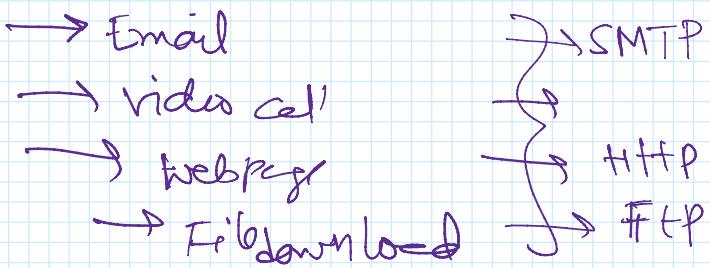
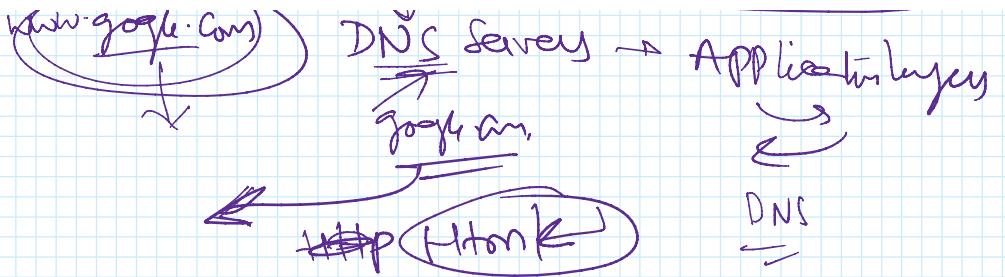
→ Construct look table

Routing Algo → generating lookup table

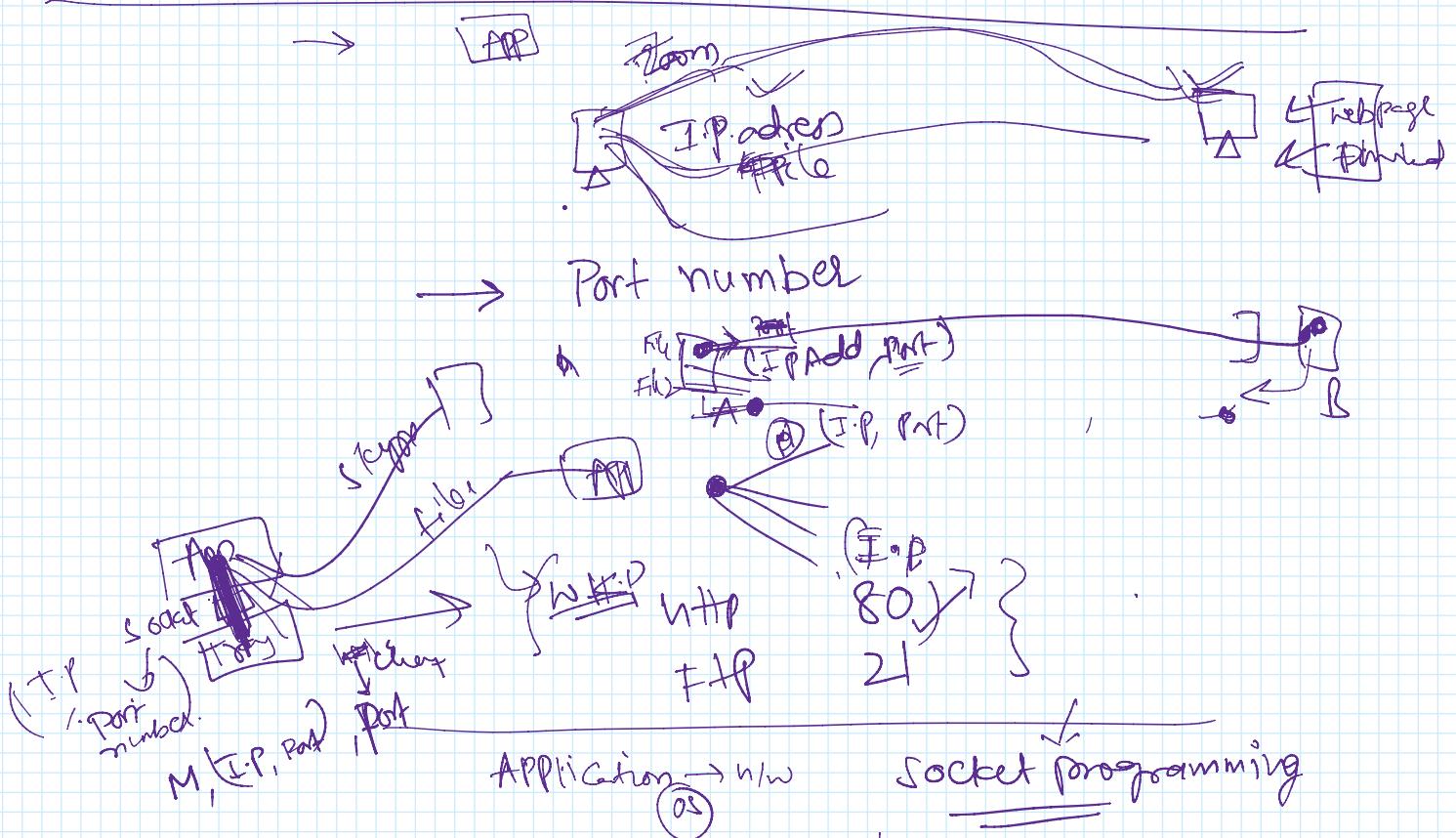


www.google.com

DNS Server → Application layer



Chapter 2 of Kurose & Ross ↗



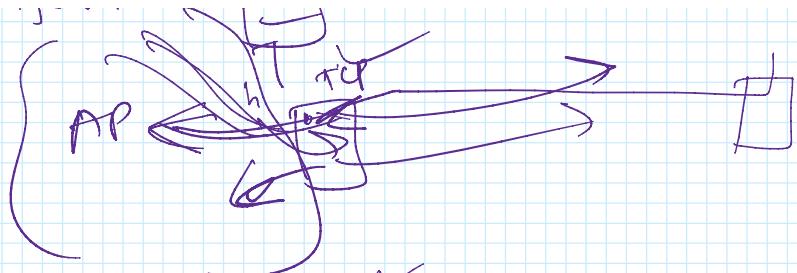
Application
→ Socket → Python / Java



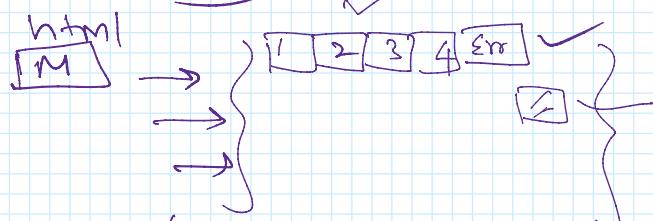
WWW 20m
Browsing (IP, port)

HTTP, RTT

AP (IP, port)

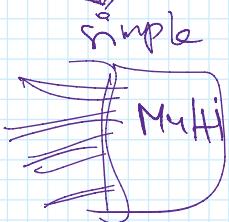


html



TCP / UDP

reliable
sequential



Socket
most Chapter

Client

