

Lecture - 2 - Evolution of Internet

Internet

To transfer data, punching card was used.
For numbers, I knew to convert it to binary.
But for characters, I don't know.

ASCII

A - 65

B - 66

& so on.

HELLO
72 69 76 76 79

Converted to Binary

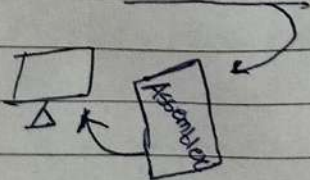
ASCII does not support → \$, a, b, c.

Hindi, Chinese, Spanish → ?? American Bare dal diye but 3R, 31R, → ?

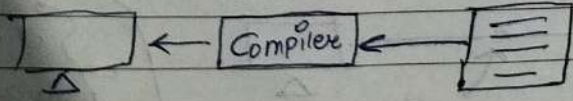
- ① UTF-8 - Follows ASCII.
- ② UTF-16 → Approx 2^{16} values.
- ③ UTF-32 → 2^{32} values.

But they were still using binary language, then Assembly language was developed.

ADD 2, 3



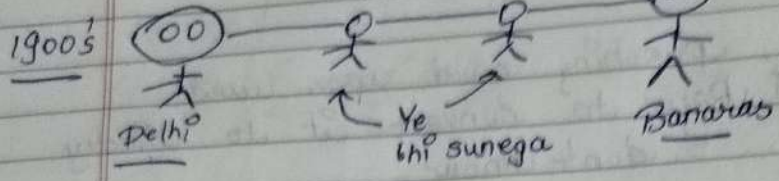
High Level Language → Java, Python.



Machine Language > Assembly > HLL

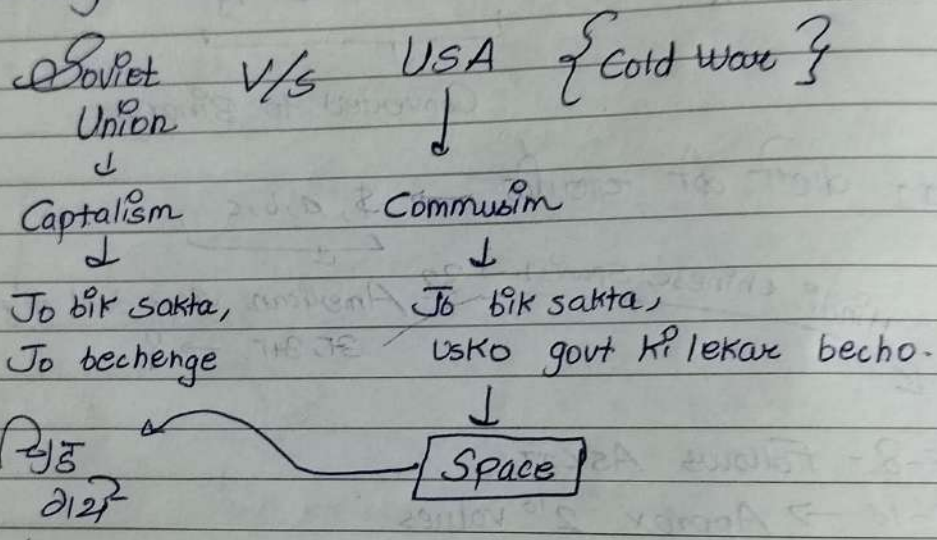
Low level

* Telephone

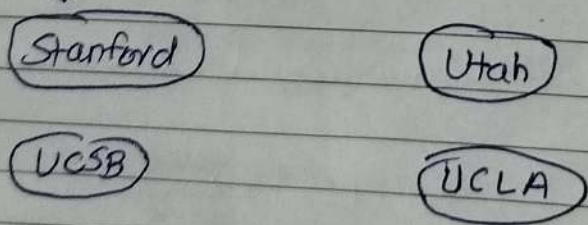


- Analog signal was followed

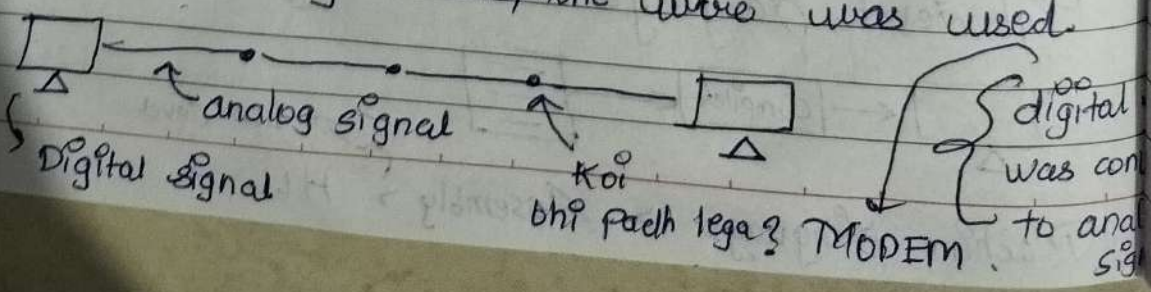
1950 Punching Card was used



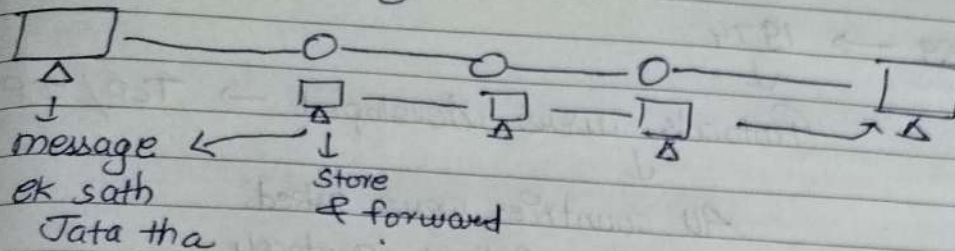
ARPANET was developed to transfer data



➤ Circuit Switching : Telephone wire was used.



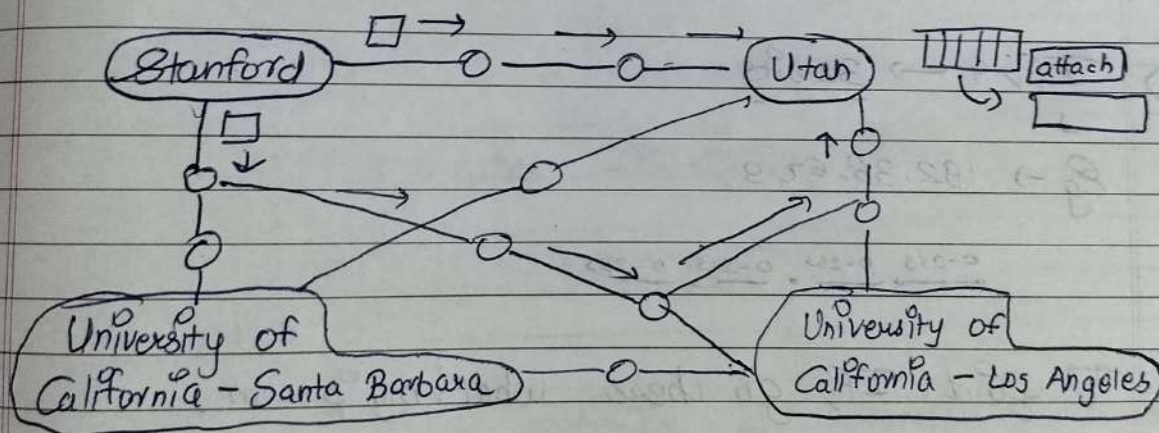
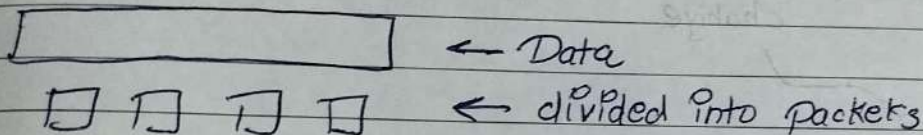
Message Switching



N/w delay happened.

3) Packet Switching (1969) → LOGIN

Only 2 characters were sent,



Packets get going in various directions.
Koi bhi packet kahi bhi ja sakta hai.
In destination, they were attached together.