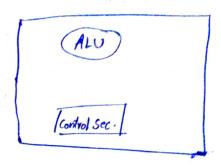
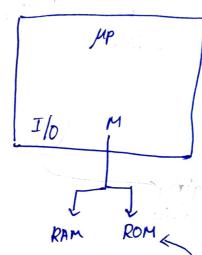
—) It is an integrated chip in which multiple things ove embeded.



Micro Controller => made to run single applications

Integrated circuit with UP &



Bootloader helps in programable Rom

BIOS in Rom

helps when to use enternal program er

=> 8 core means 8 pup can run parallely.

Intel major contributor of MP & MC

8080 (voltage issues)

=) 8085 (1st comm. Successfull)

=) 8086 (To 1 speed they made this) (Adv. up)

INTEL + JBM 80 286 80 386 80 486 80586 (around 1995) 8085, 8086. Lo 16-bit up 8-64 Mp It controls other two Keyboard Computer Sys. Micro phone -1 Sensors Program + dota Scanner made of capacitors

Stored in 0, 1's 1 -> High logic O -> OV >3.2V => logic high. 0-22 V => logic 0 in between If voltage 2.2-3.2V -> Garbage -> Logic High. (1) diff. is noice margin 2+3 = 8 High loved language int y = 5; Numbering always in Z = x+y; Compiler Hexadecimal HLL MLL 8 bit → byte; If no bug then compiler turns into 8+8 bit -word

| up wonit have variables they have | registers (made up of Plip flops) |
|--|--|
| Jeneval purpose A -> Accumilator B C D -> general pur E F | Spl purpose L Can't be used by user spase |
| -> Registers are semi-conductor based used in up | d to store data temporarily |
| 8-bit means 8 vacant slots in memory TITITITITIES Box (B loaded 2) 2+3 CiB (C 11 3) 0000 0010 | each bit have a flipflop. 2 is 4-bit only but we need to use 8-bit value |
| ADD B, C Top code operand adata In memory: ODDO 0010 3 (In MLL) Binary equivalent of ADD is Stored it interacts with | Now up task is to add these numbers. |
| | reads the data. |

it up decodes meaning of einory equi. of ADD and gets to know it should add and then executes.

Tetch

Decode

Execute

\$8085 needs 4 cycles to give 1 IC