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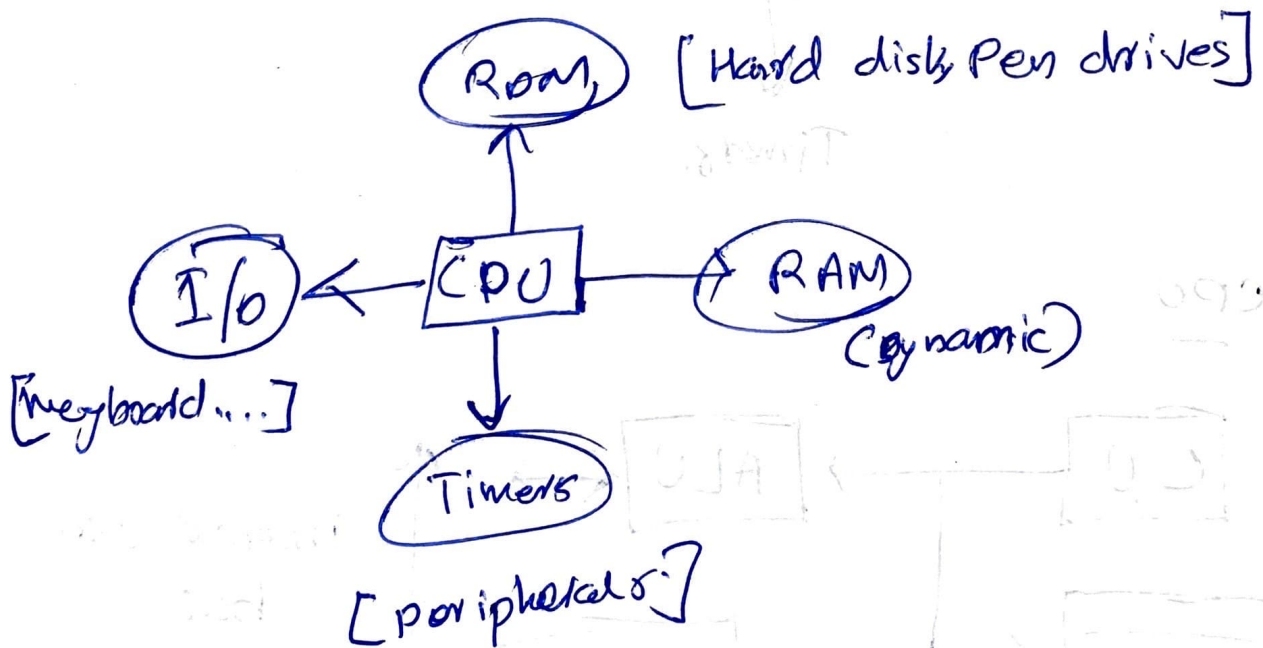
AM. EN. U4CSE 20364

Microprocessor → reads data, ~~and~~ extensive calculation, stores data

Microcontroller → Reads data, limited calculator and control/store data.

Microprocessor

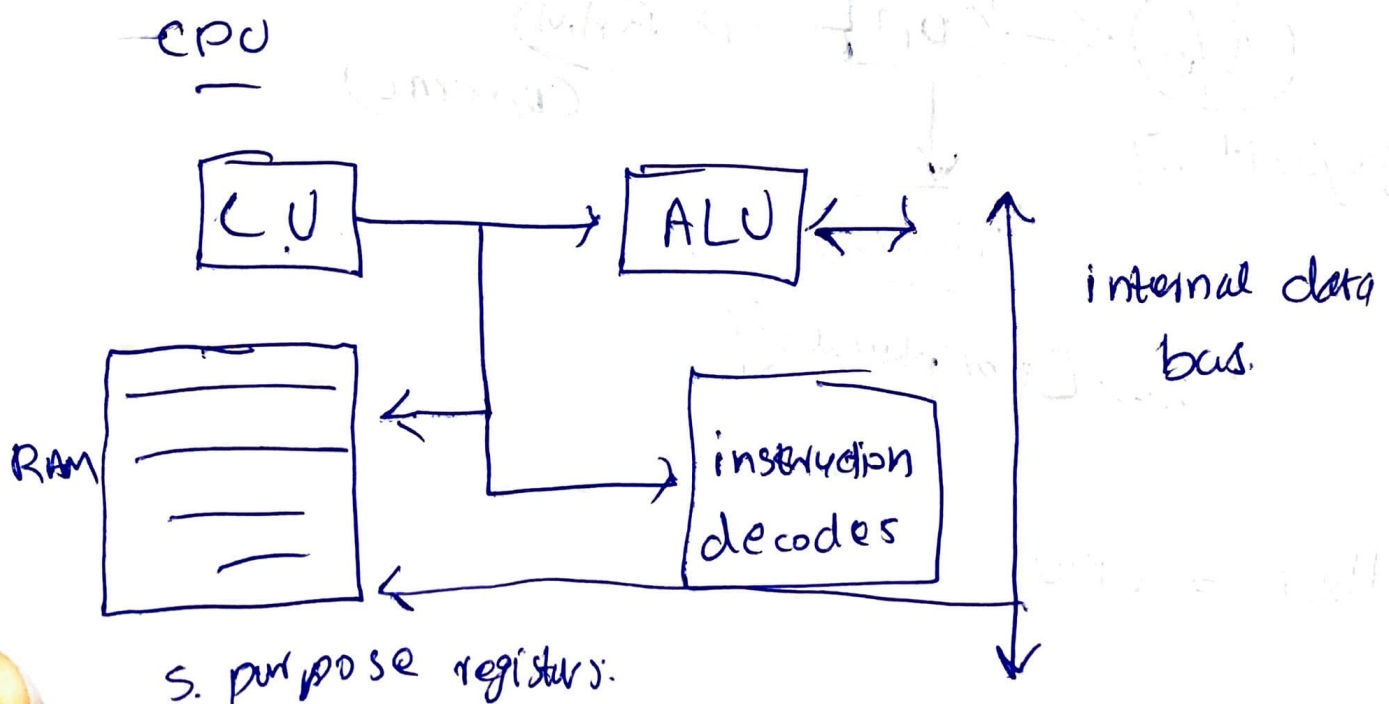
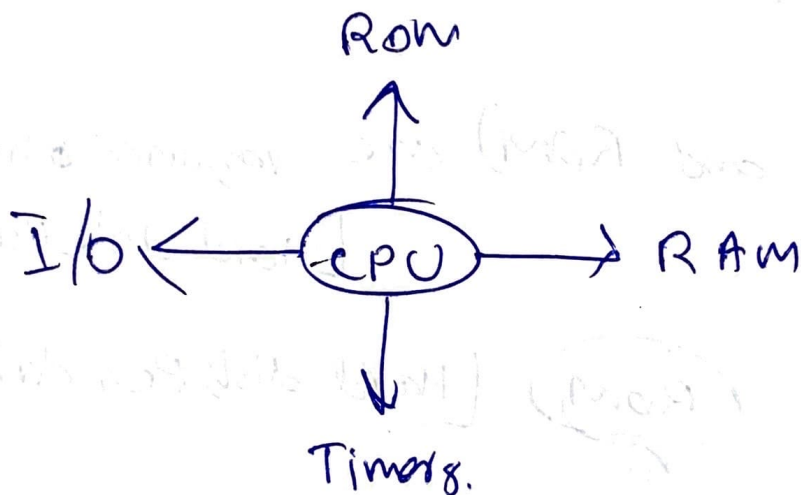
→ Data & (ROM and RAM) are required & high
[Hard disk, Pen drives]



Heart = CPU

Micro controller

- Data & (RAM, ROM) are required less compared to μP (fixed) (static)
- Program generally fixed like oven.
- I/O → fixed.
- Peripherals → specific (faster)
- Tightly coupled.



memory

RAM

Dynamic

Depended on power
(Data retention)

SRAM

DRAM

temporary data

Microcontroller application

Electronics -

Aviation industries.

Internet devices.

Biomedical devices.

Telecommunication

ROM

Static

NO Data dependent

EEPROM

UVE PROM

program / static data