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Assignment [1]

1)

* MicroProcessor: a general purpose processor that contains no RAM, ROM and cannot operate without them

* Micro Controller: a chip that contains RAM, ROM, I/O along with the microproc.

* Embedded systems: systems controlled by a special purpose computer

* Mechatronic system: systems in which mechanical HW are integrated with info. driven systems.

* n-bit Processor: a processor that deals with n bit of Data at a time

2)

Micro Processor	Micro Controller
* General Purpose	* Specific Purpose
* No RAM, Io/Rom	* has RAM/Io/Rom

3) * Von-Neuman :
- a single common memory space where program instructions and data are stored and a single data bus fetches instructions and data

* Harvard :
- Separate memory area for instructions and another for data. one bus connects CPU to RAM and another connects CPU to Rom.

4) * PRom
- information can be burned only once

* EPRom
- Can be Programmed and erased using UV

* EEPRom
- Can be Prog. and erased Electrically
- byte wise erasable

* flash
- Same as EEPRom but block erasable

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5)

* SRAM
  - Made of flip flops
  - Doesn't need refreshing in order to keep data
  - fast and used for caching

* NV - RAM
  - Contents are not gone when Power is off

* DRAM
  - Made of Capacitors
  - requires refreshing in order to keep data
  - Slower than SRAM

6) because in the Normal operation, CPU can't write to it