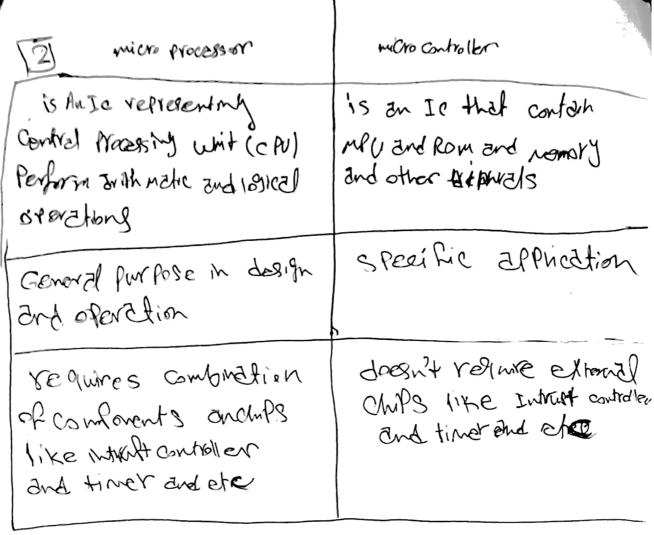
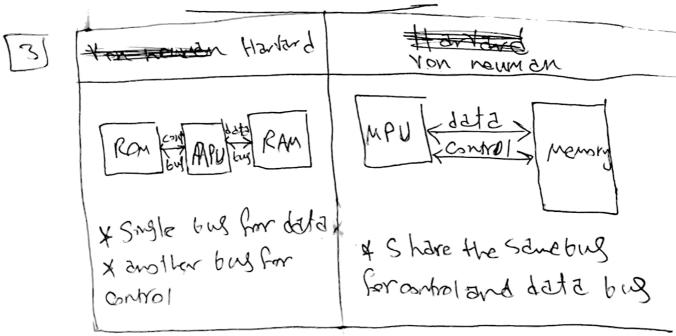
| 1 | 1 | | F | í |
|---|---|---|---|---|
| | | 1 | | |

| Delinition | Meaning |
|---------------------|--|
| micro-processor | is an IC which can perform an arithmetic and logic operations, used in microcontrollers and used for general Computing also |
| micro-controller | micro Controller contain micro Processon attached to Memory and many parpherals like: ADC, Timer, UART, IZe, SPI, CAN, LIN, GPI & and other pri Pherals attached to each others using buses |
| | MPU Pagh Interrupt Gontholler Peripherals |
| Entedded Systems | Embedded Systems is a specific or Special Purpose computer System that terform one or few specific functions there are 2 types of embedded systems [] Bare-metal [] Os Applications |

| Definition | meanney |
|------------------------|--|
| mechatrovil systems | is a system that contain electronics and programming and mechanical parts such as Robots |
| n-61t Processors | It mean that registers in that Processon contain n-bits and it can access address from 0 to 2 ^h -1, and its Databug Willin is n-bit or can process n-bits of data |
| | If the same time |





The data is written during the manufacturing process

* one time programmed

[2] PROM (programed one time by when

[3] EPROM GEYSSAble Programable ROM): * Can be Erased using whating (UV)

4 EEPROM (Electrically Erasable programble Rom): *Can be Erased wang Electrostaty

5 Flash Rom

Q5 I SPAMS

Static RAM Inflemented Wary & transistan Soits Paster than DRAM but also expensive

advantagess * Fast * medium Power consumbin

disadvantages XCX Persive

x more conflex x volatile

APP licationso

*Calhes

bit line true

SRAM

bit the conflement

DRAM

Ogramic Ram Harlemanted

Using I transister and I calabitor

More Size than SRAM

6+1 me

advantages:

* Falter comfore the Rish

* more size than SRAM

* cheater than **AM

dis advantages:

* somer than

* whatile

* need to be recharged

* Aprications &

Memory

\$261 RDM is redd only of runtime
as if you want to write on it the former
should be OFF

| +486 | el Volatile | wntab | lc | Siz Siz | se! | M&X Evale | cost Perbyte | speed |
|-----------|-------------|---------|----|------------|------|--------------|-----------------|-------|
| ROM (MROM | | False | 2 | N/1 | A / | NA | char | Fast |
| PROM | Ns (one | e) true | , | V)\t | } | N/A | nder 2te | |
| EPROM | No | true | 1 | ENTINE CH | 14 P | limited | moderale | |
| EERRON | No | true | là | Jte | - 1 | | Extensive | |
| Magn | No | true | 5 | estor | li | mited | Moderide | Fast |
| NVRAM | NO | true | Ь | The | lm | him ted | exposite | Fast |
| SRAM | yes, | true | 69 | te | lu | n' Med | ex fensive | Fag |
| DRAM | yes | true | bi | ste | L | himled | Modeste | rdery |