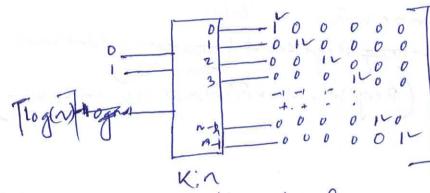
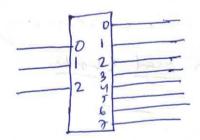
| - Leedure-8 9 Sept. 2019 -   |
|--|
|  |
| The state of the s |
| - D- Hip trop (1-691-)   |
| - Registers (more man ove- 611)  |
| - Registers (more man ove- 611)  - Registers (storag Register + bounding)  - program conter (register + ods timal bunchionality)   |
| - Proper and Content   |
| Register + norshired bundbarning   |
|  |
| Today", Lecture:   |
|  |
| -) Mennory Derign:   |
|  |
| - Reign Her tile:  |
|  |
| Memory Design:   |
| - Able to store the information  |
| - Alle to store the information (data or instruction)  |
|  |
| - Able to access but read Runte  |
| 13 lock diagram:   |
|  |
| -> Loration o  |
| -> coration 1  |
| -> Location 2  |
| i i  |
|  |
|  |
| ( Location ( -2)   |
| -> Location (r-2)  -> Location (r-1)   |
|  |
| Addrening requirement: -   |
| - Also to Address Cozation?  |
| - Alle to Here data/sonstruction on<br>Location i william-da abbector  |
| Loration i william - sta abbeition   |
| other and love times   |



orby one location is address

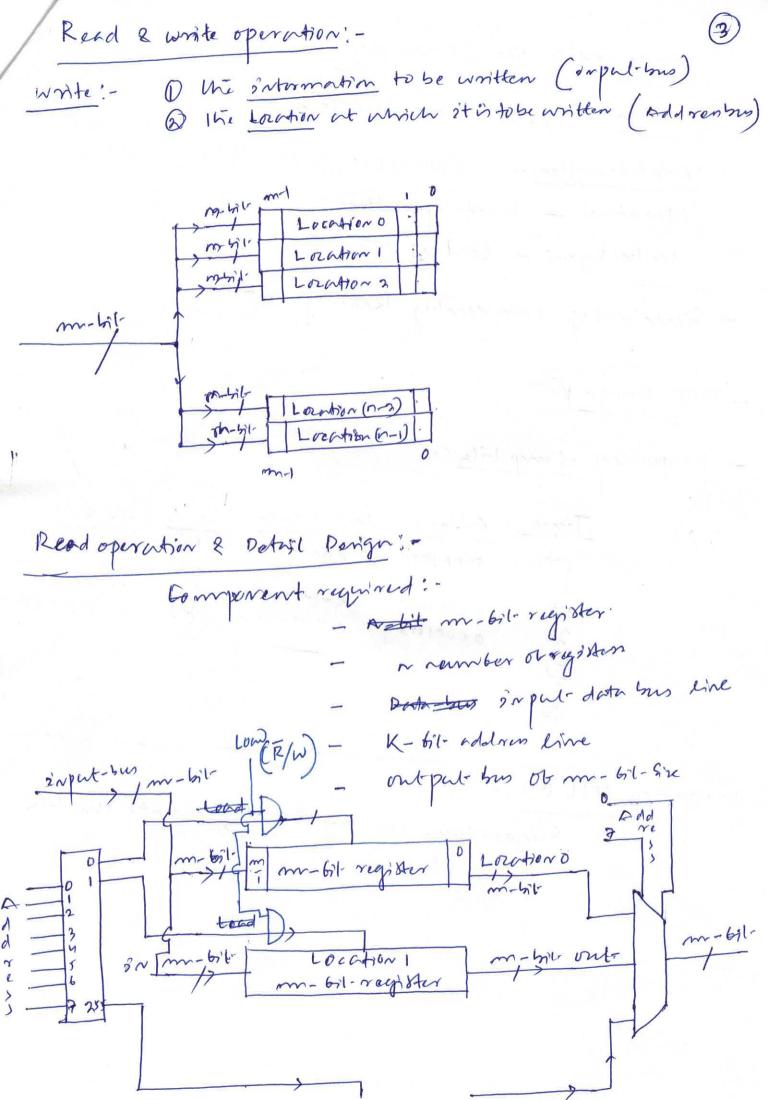
K:n addminderola

Example: (~=8) R=[1098] = 3



address

| 6  | dares | 87   |      |     |      |    |    |       |     |
|----|-------|------|------|-----|------|----|----|-------|-----|
| 62 | ay    | ao   | leo. | ena | Me l | es | ey | es le | es  |
| 0  | 0     | D    | 1    | 0   | 0    | 0  | 0  | 0 0   | 0   |
| 0  | 0     | 9 45 | 0    | -1  | U    | U  | -  | 0     |     |
| U  | ţ     | 0    | 0    | 0   | 1    | U. | -  | ()    |     |
| U  | 1     | 1    | 0    | 0   | D    | 1  | -  |       |     |
|    |       |      |      |     | 0    |    |    |       | 1   |
|    | ,     | 1    |      | D   |      |    |    | 0     | _ 1 |



Deriga veribication (Example): Address - 00000010 - Location 2. Dootatube mitten - 0000 0110 0000 0001 operation - unite operation combool signal - Load = I -> Similarly vanveriby Read operation : - IHOL Derign

- preparing . Emp bile:

| Time     | Addren         | 1 pul- posta | Load | xxxxxx              |
|----------|----------------|--------------|------|---------------------|
| 0+       | 0 0 0 0 10 0 0 | XXXXXXX      | 0    | 0000000<br>XX X XXX |
| 2+<br>3+ |                |              |      |                     |

preparing Tol bile!

Suggestion- use pagition to generate in bile

5

Stre of a memory! -

- Total lowerton X wider of a breation

- NXM Bil-

byte = 8-61

word = 16 bit (intert architecture)

word = 32 bit (MIA architecture)

double = was a sword

1 Killo = 210

1 Maga 2 2 × 210

· 1 Gibe = 210 × 20 × 210

1 Tera = 210 × 210 × 210 × 210

1 Peta = 210 × 210 × 210 × 210

1 Willo 6 yte = 210 x byte 3 210x 8 6its

Type of Memory (Rom)

to be used \_ Read only (Rom)

To Ram (Rynamic Rawm Accentum)

To wind course. \_ DRAM (Static RAM)

- SRAM (Static RAM)

- NVM (None-whatile Manony)

- Disk