CSE 331 / L-19/27.04.2024 /

any input 0 will m NAND will be 1

cs = RD (Need to be same input)

 $RDY_{i} = 1$ $AEN_{i} = 0$ READY = 1

Changing on RD will change the output of READY, but it will effect after some time, not immediate. So, the current ercle will be consider as the normal operation.

Value is changing almost immediate but the CLK pulse.

-will be effect from next pulse.

® One pulse wait, connection will be on second Pin 2 pulse ≥ 2rd Pin

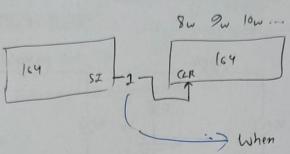
Tw. > 6w

Ensure that, make your microprocessor in wait stay unless and until about 600 ns to 800ns

To Ty

The wait pulse need to generoode.

Two is not possible from this cineuit. so, it we need to wait upto Two then we need to add another shift register 164 in parallel



One Question in next Engin Must

When all the pin is I and & champing to 0 after full eycle, SI will be 1, for some time.

RAM & ROM

CE > Chelt enable OE = Output enable

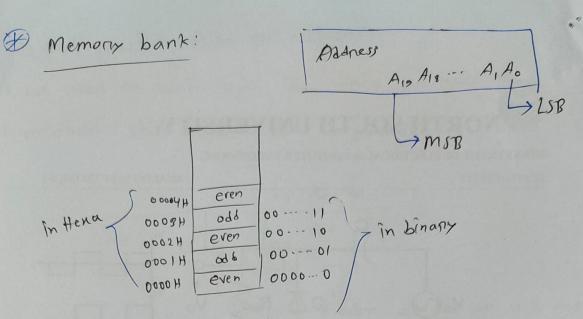
Fon RAM

WE > Write enable only for RAM Do - D7 = 861+ Data bus

Ao-Aiy = 15 bit address

= 32 K - 86it/2 byte

= 32 Kx 8 bit memony space = 212 = 4096 = 4096 = 4 K × 1 byte = 32 k × 1 byte



25B in binary,

0 = even > even addressed in Lover Bank

1 = odd > V pren bank

A. - As connected in Both bank

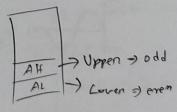
A. - is the LSB decide the even on odd bank

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Decide the even of the even of the even

* Recall dorta insention in Memory

MOV [BX], AX =



AO BHE	BHE = Bus High Enable
0 1	- this than D - Dir need to read
	when bunk connected with uppen bank
0 0	None Not Possible according to structure

realm

At a fime 16 bit data bu not used. Eithen lower 8 bit".

on upper 8 bit.

317 two 6228 RAM

one input in OR gate is O.

At A and BHE decides which RAM need to be active

$$74138 \Rightarrow MUX$$

A15 - A12 \Rightarrow Selection Pin

 $A_{15} - A_{19} = 0$
 $0 \leftarrow A_{18} \longrightarrow 620$
 $0 \leftarrow A_{19} \longrightarrow 620$

Total address =
$$00000 \text{ H} - 07FFF \text{ H}$$

$$A_{19}-A_{16} \qquad A_{19}-A_{16} \qquad A_{18}-A_{12}$$

$$\downarrow \qquad \qquad \downarrow \qquad \qquad \qquad$$