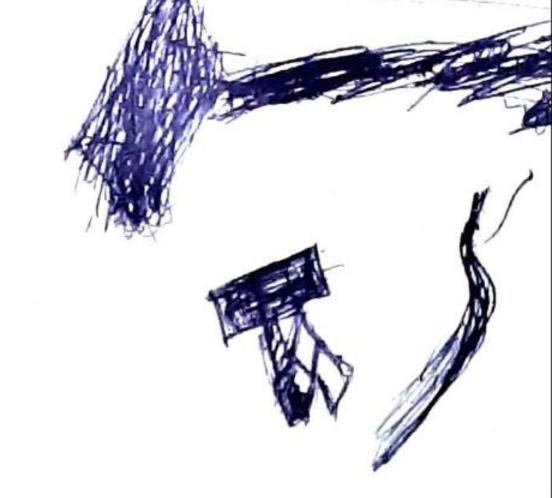
Memory design

memory = NX w

required memory = N'X w'



attore N' > N , W' > W

3 types of organization of N'orw' can be formed Nxw

D 1024×8

8 ×8 20 CB

care 1

in N'>N' 2 W' = w

Increa number by jador P=N'

care 2

IN DN DW SW

Incoron the word size by lacker

of = w'

	Date
ot. No	Page No.
care 3 i1 N'2N & W'>W	
Increase no of words by 10	vor 1 P
Increare the word size	of a memory by
Design 1024 x 8 - bit RAM us	ing 25b ×8 -bitRA
(ax) N'>N 2 W= w	
$P = \frac{1024}{256} = 4$	8/8=1
Pog = 4	
S.NO Mem NXW N'XW' P 1 RAM 256X8 1024X8 4	9 Px9 252

$$P = N' = \frac{512}{256} = 2$$

$$\frac{N_{2}\omega'}{RAM}$$
 NXW P Q P+Q

$$\frac{1}{2}$$
 $\frac{2}{56} \times 32$ $\frac{1}{28} \times 3$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{8}$

							Da	te	
Expt. 1	No	•						Page 1	No
1)	512×3 256×8	2 => requi	ired?	RAM		Reg	no:	19111	00021
		2 => req => avail	1	Rom					
	For RAI	'							
	cases	3:- N'	> N , W	1 > W					
		$\frac{N'/N}{512} = 2$ $\frac{256}{2}$		Q = 1 = :	,				
				- h	P.A.D.	~	9		Total
1	RAM	512×32 256×32	256 X 8 128 X 8	2 4	8	1	2	1	4
			5	1					
		,	, , , , , , , , , , , , , , , , , , , ,	To	eacher's	Signatur	e		

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CAO

Attendance



Regno: 19m100021

Name: Hnithik Hom

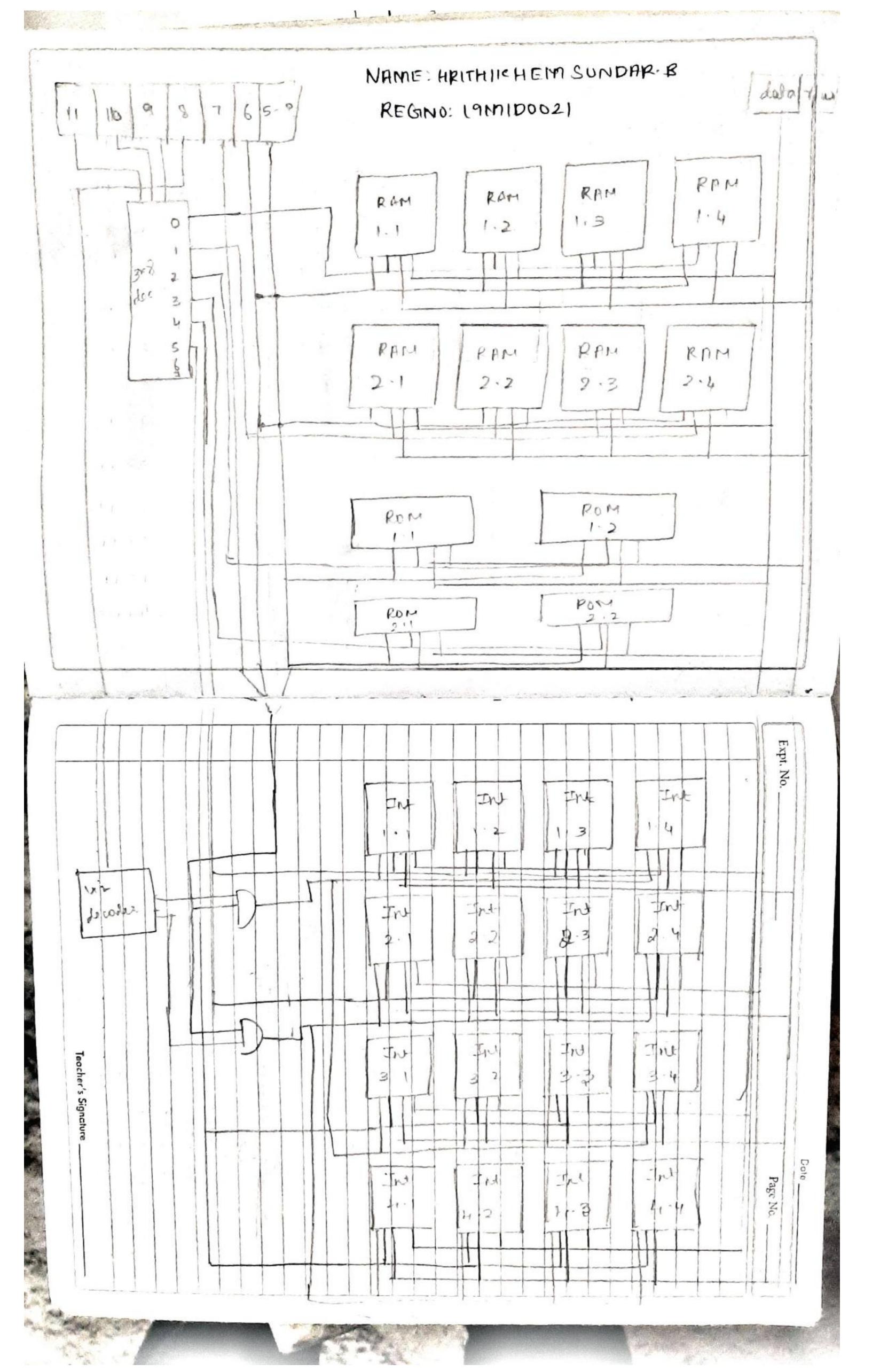
Sundar

$$1 \text{ RAM } 128 \times 8 \ 256 \times 32 \ 2 \ 4 \ 9 \ 1$$

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2 X 4	
1 2 3 4	
1 1.1 1.2 1.3 1.4	
2 2.1 2.2 2-3 2-4	
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2	
1 1.1 1.2	
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Interpace	
4 × 4	
1 2 3	<u> </u>
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ı	RAM 1-4	0	C	0	0		00	7F					0	0	0	D	0	*	×	×	×	×	×	×	HRITH
P	2AM 2.)	0	2	0	0	0	2	7F					0	0	1	0	0	×	×	×	×	×	×	×	SUNI
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