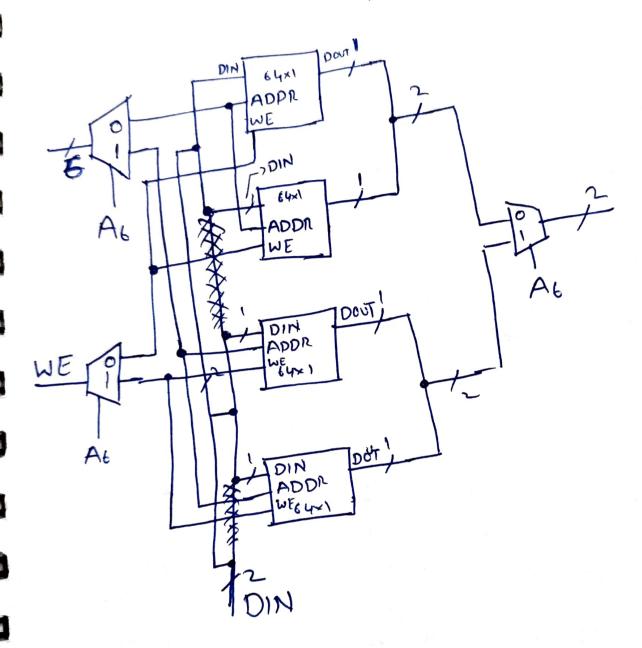
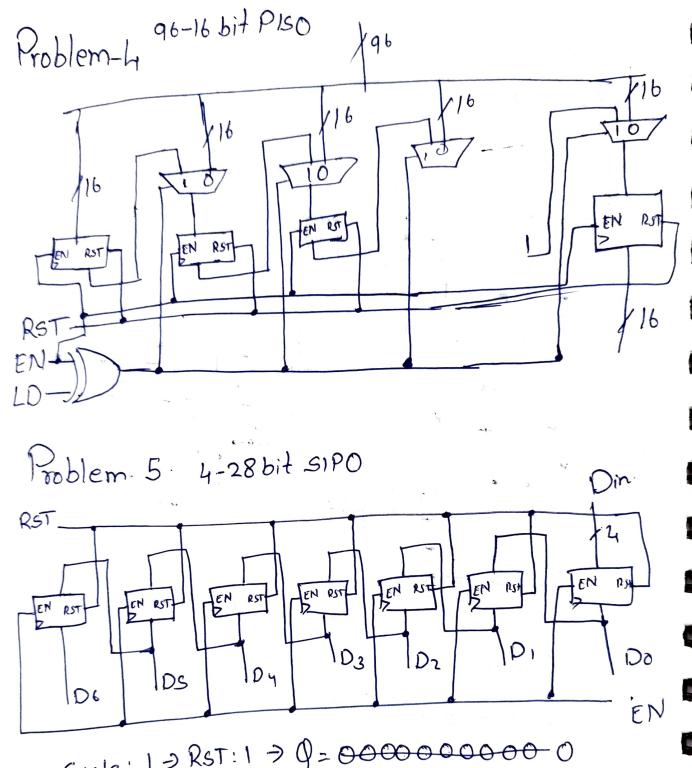
32168 422 Min -> -21 ->x=4 Max -> 63 -> x=-8 Problem -64 32 16 8 421 Y= (-7) (x-) ' 54-bit signed X-min = -8 DOUT ADDR D Max -> 34 Y binony Signed  $\chi$ 63 -8 011111 56 0111000 0 110001 49 42 0101010 35 0100011 -4 28 0011100 21 0010101 14 0001110 -1 7 0000111 0 0 0 000000 1 111018001 2 3 1 110100 -14 101011 -51

Problem-2

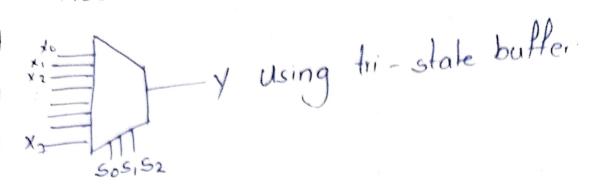
AG AS AG AS AZ AN AO 64 32 16 8 4 2 1

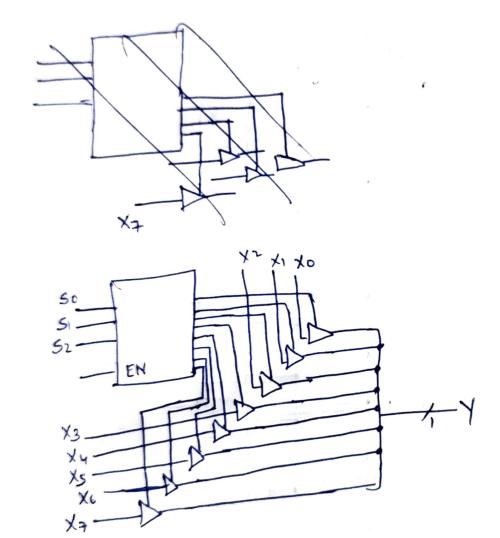


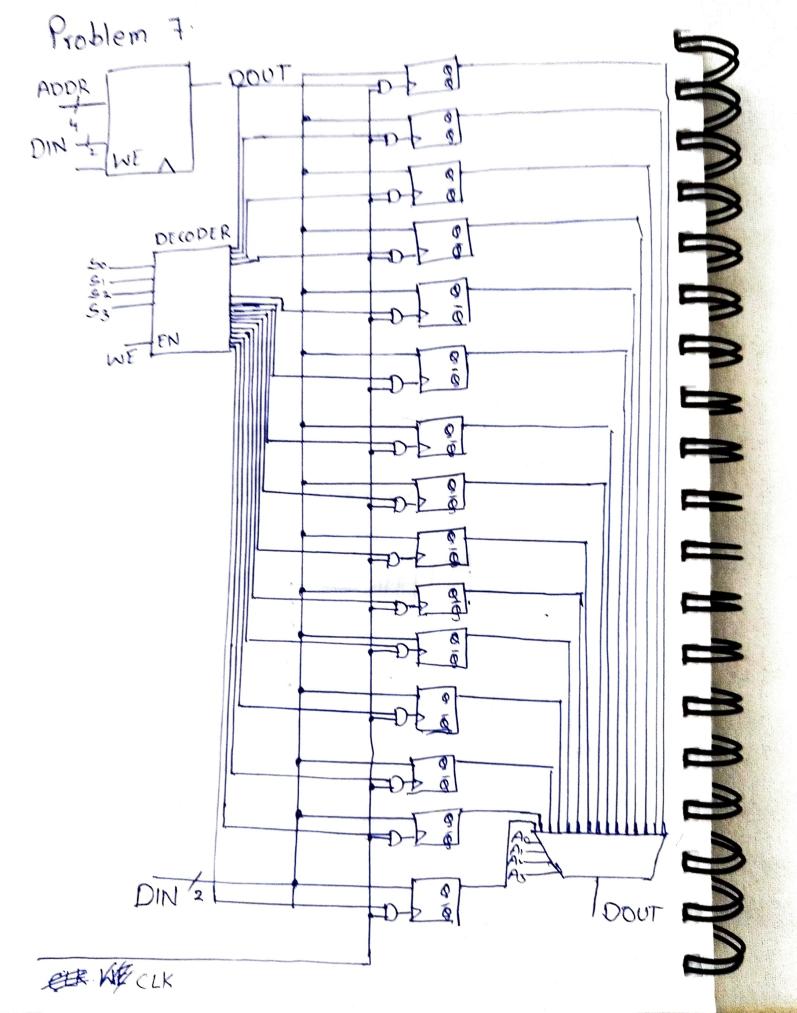


Roblem 6

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## Problem 8

DOUT 10 15 16 10 10 DCX 00 16 10 54 54 0 MEM(O) 76 76 00 00 00 00 76 MEMCID OF OF I OF OF OF OF MCM(2) 10 54 54 10 10 10 10 MEM [3] DC  $\infty$ DC 00 DC oc IF 200ms 300ms Ons 60 ons 400ns

(F)

-	00 C			-	. •	***	DOUT MEME
oF	OF O	F OF	= OF	oF			MEMI
10	10 11	0 10	10	54			MEMI
1F	DC D	COC	DC	DC			MEM

-	-
	. \
10	. ,
-	2

_	OF	DC	110	DC	76	54	r	DOUT
	00	00	00	00	<b>@</b> 76	76		MEM[0]
	OF	OF	OF	OF	OF	012		MEMED
	10	10	10	10	10	5H		MEMCE
-	IF	DC	DL	DC!	DC (	DC		CEJM3M
On	s 100	200	300r	'S 400r	Soon	ns 6	2n00	остория.



	, DF	OF	OF	OF	OF	OF		DOUT	
	00	00	00	00	76	76	F	MEM[O]	
	01=	IOF	100	0F	OF	OF		MEMCIZ	
	10	10	10	10	10	54		MEM[2]	
	IF	DC	DC	DC	DC	DC	Mind I was	MEM(3)	
ons 100ns 200ns 300ns 400ns									

Problem 9

Ons 100015 | 30015 | 50015

@ First - Word - Fall through FIFO

	(·					. %	•
DOUT	F8		DP	_	_	30	
EMPTY		High	_	High	High	_	
1=1 FO DATA	F8		De	_	_	36	
*							
on	ક (ઇ	0N2 		ons o	S	oons	00 rs
		20	10N2	40	10 ns		

