DLD - ASSIGNMENT-7

NAME: INTHRA KUMAR A

ROLL NO:

520220010085

I ABAL WING!

To verify Encoders by using Truth table and Logisin

Software used:

1. Logisim Software.

4-2 Encoder Circult:

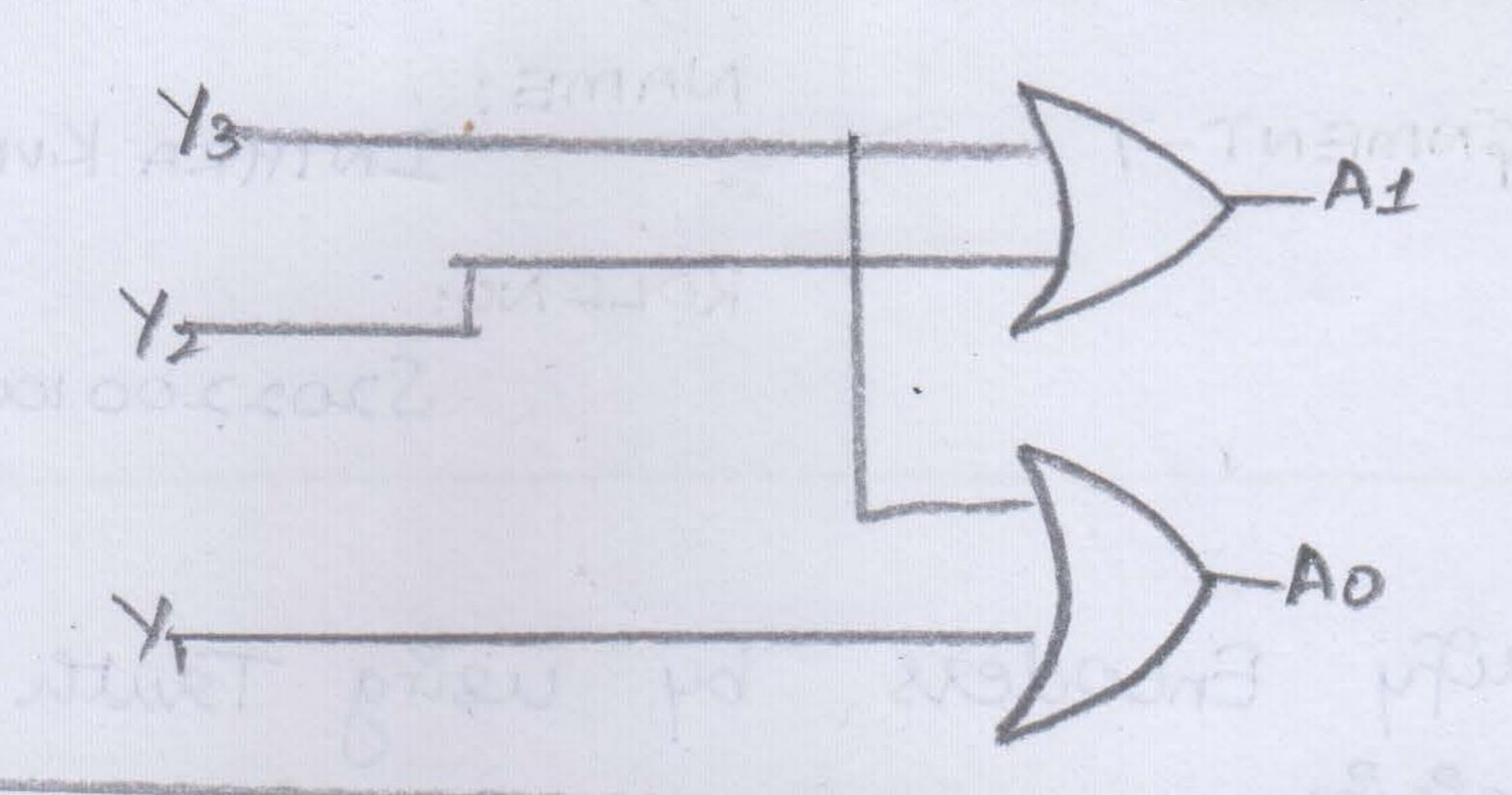
TRUTH TABLE!

	INPU	TS		OUTPUTS				
Ys	Y2	Y	Yo		A1	Ao		
	0	0	1			0		
		1	0		0	1		
	1	0	0		1	0		
1	0	0	0		1	1.		

EXPRESSION:

A1 = Y3+ Y2

A0 = Y3 + Y1



4-2 PRIORITY ENCODER:

TRUTU TABLE!

	NPOTS			OUTPUTS			
23	D2	Di	Do	Y	Yo		
0	0	0	0	X	×		
0	0	0	1	0	0		
0	0	1	X	0	1		
0	1	×	×	1	0		
1	×	X	×	1	1	Procession in spectroses	

EXPRESSION:

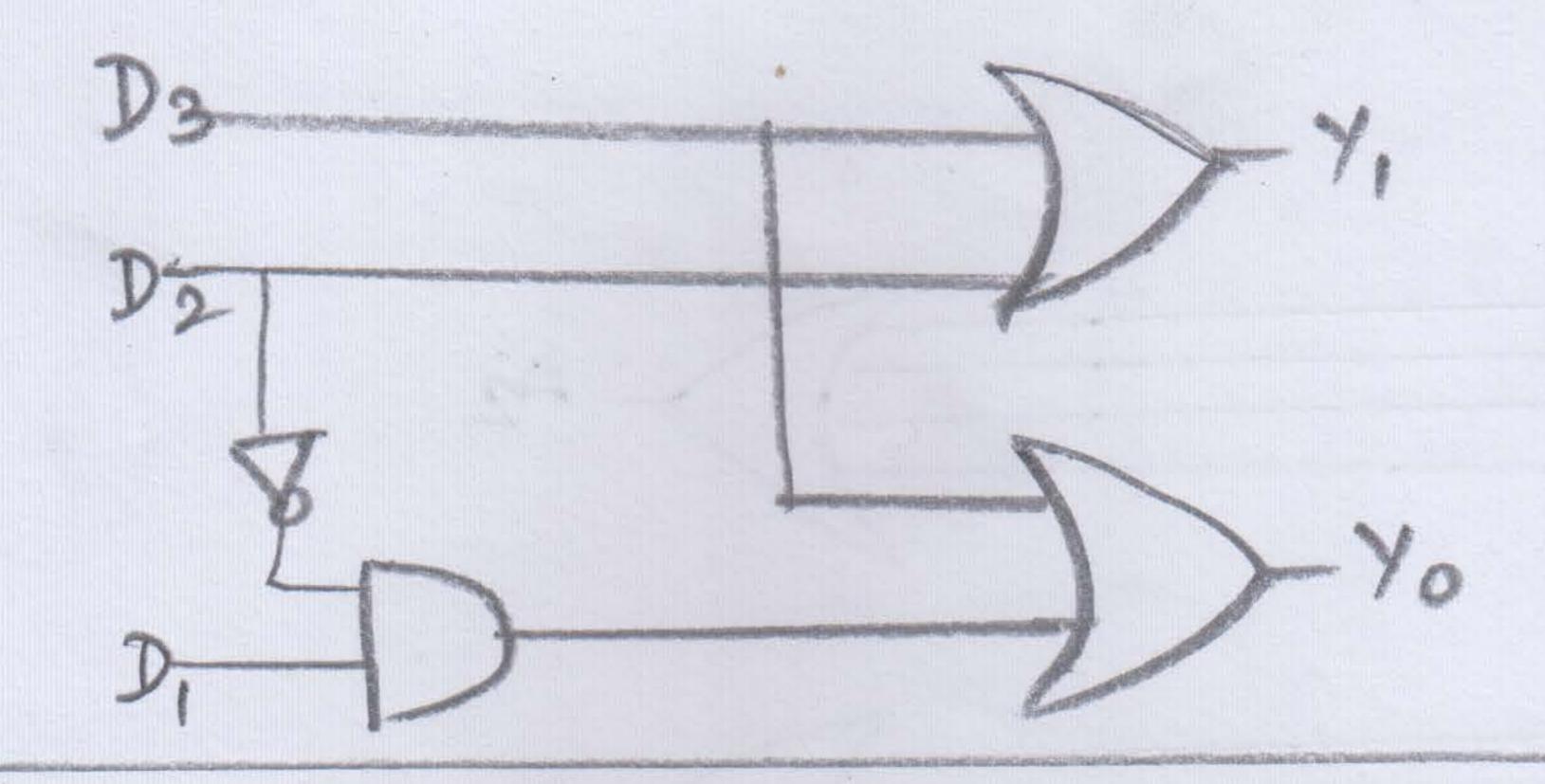
$$Y_1 = D_3 + D_2$$
 $Y_0 = D_3 + D_2D_1$ 

cY + sY = 1

+ EY = OA

:40,22997XJ

1 LOSEL SERVER TOK

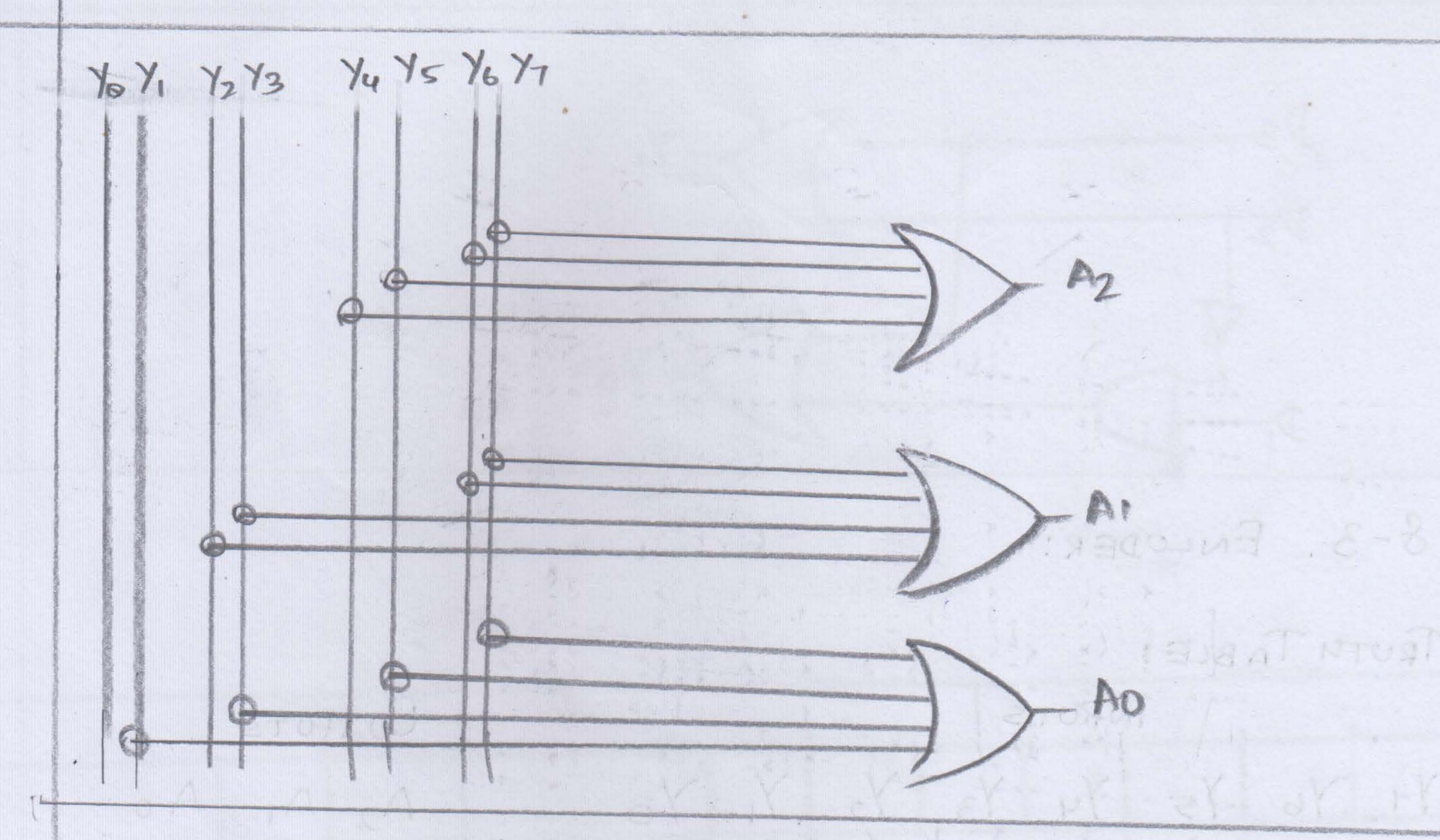


8-3 ENLODER:

## TRUTH TABLE:

Samuel		-	QUTRUTS								
1200	Y-1	16	Y5	Yy	Y3	Y2	Y	Yo	A <sub>2</sub>	AI	Ao
	0	0	0	0	0	0	0	1	0	0	
APPLICATION OF THE PARTY OF THE	0	0	0	0	0	0	1	0	0	0	1
Children Company Common Common	0	0	0	0	0	1	0	0	0	1	0
Committee of the Section Co.	0	0	0	0	1	0	0		0	1	1
NAZP ZELEST PROCESSOR						0			1	0	0
Control Total Control	0	0	1	0	0	0	0	0	1	0	1
CHARLES BARRIES	0	1	0	0	0	0	0	O	1	1	OA
では、日本の大学の大学の大学の一年の一年の一年の一年の一年の一年の一年の一年の一年の一年の一年の一年の一年の	1	0	0	0	0	0	0	0	1	1	1
ALTERNATION OF THE PARTY OF THE											
			And the first of the later of t	SECTION OF STREET	NAME OF THE OWNER, OWNE	AND THE PERSON NAMED IN COLUMN 1995	NAME OF THE OWNER, WHEN PERSONS ASSESSED.				

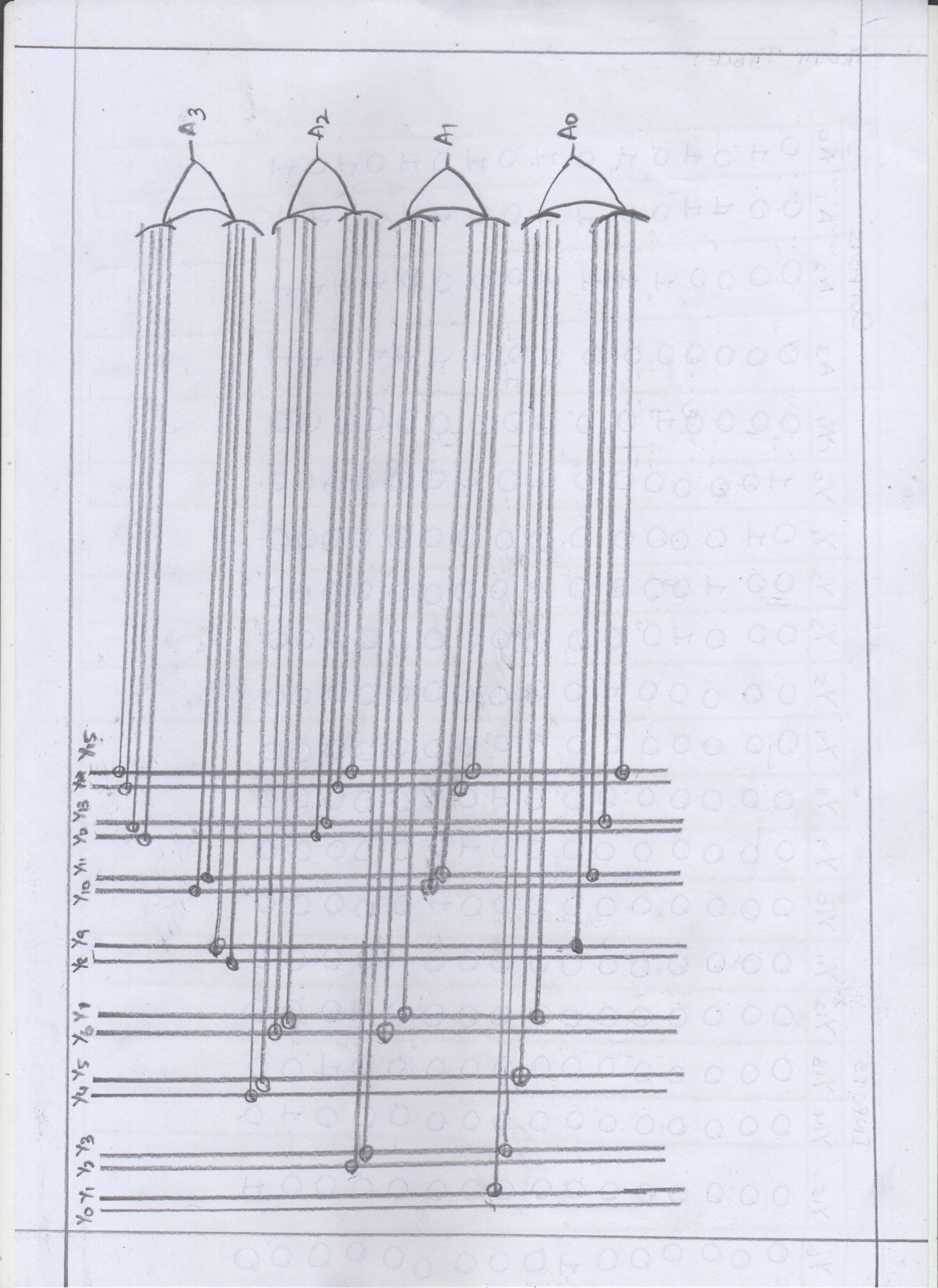
$$A0 = Y1 + Y5 + Y3 + Y1$$
 $A1 = Y7 + Y6 + Y3 + Y2$ 
 $A2 = Y7 + Y6 + Y5 + Y4$ 



16-4 ENCODER:

## EXPRESSIONS:

A0=  $Y_1 + Y_3 + Y_5 + Y_7 + Y_9 + Y_{11} + Y_{13} + Y_{15}$   $A_1 = Y_2 + Y_3 + Y_6 + Y_7 + Y_{10} + Y_{11} + Y_{14} + Y_{15}$   $A_2 = Y_4 + Y_5 + Y_6 + Y_7 + Y_{15} + Y_{14} + Y_{18} + Y_{12}$  $A_3 = Y_8 + Y_9 + Y_{10} + Y_{11} + Y_{12} + Y_{13} + Y_{14} + Y_{15}$ 



# 8-3 PRIORITY ENCODER

		IN	PUTS	OUTPUTS						
YT	76	Y5	Yy	Y3	Y2	Y	Yo	A	A	An
0	0	000	0	01	1 1	X			1 0 0 1	
			7							

### EXPRESSIONS:

$$B_{2} = D_{4} + D_{5} + D_{6} + D_{7}$$

$$B_{1} = \overline{D_{5}} \overline{D_{4}} \left[ D_{3} + D_{2} \right] + D_{6} + D_{7}$$

$$B_{0} = \overline{D_{6}} \left[ \overline{D_{4}} \overline{D_{3}} \overline{D_{2}} D_{1} + \overline{D_{4}} D_{3} + D_{5} \right] + D_{7}$$

		The same of the sa	Programme and the same	
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Conclusion:

The Emoders and Priority Emoders are verified Ph Logisim and with Truth table.

### **APPENDIX:**

