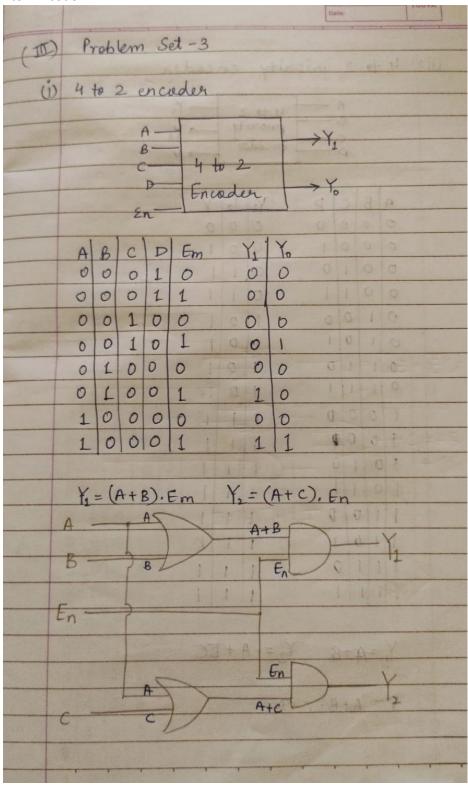
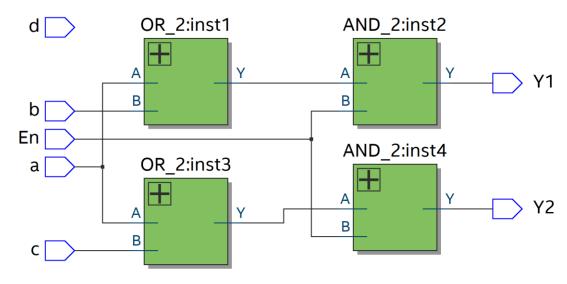
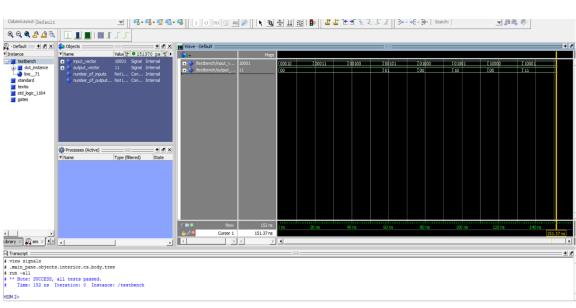
### Lab 3 Report

# 1. 4to2 Encoder



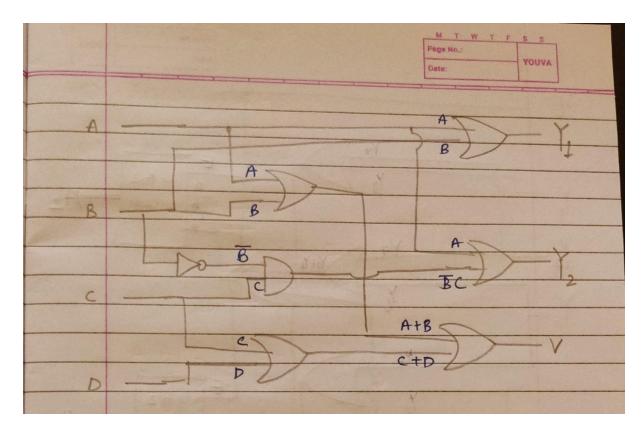
### Simulations



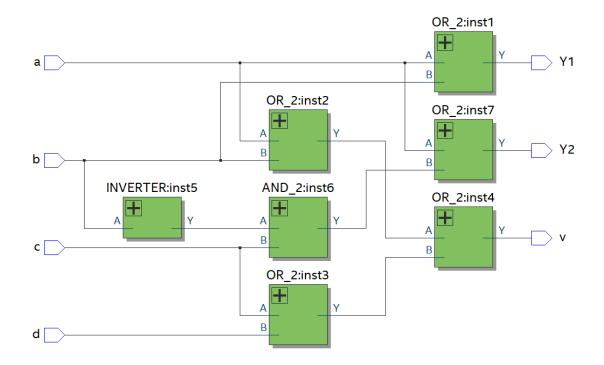


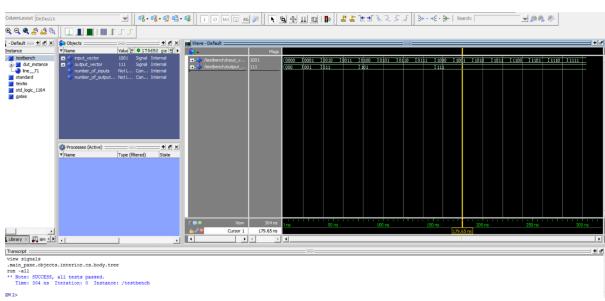
2. 4to2 Priority Encoder

4to2 Priority En	coder							E-tic milder			
(ii)	4	+0	2	prie	perit	Y	ex	ncoder			
				'	_	'		- 1 harries 5 et 1 (			
			A		4.	to ;	2	→Y,			
			*	by	to :	en en	-> Y2				
	-	10		1		11	Y	100			
	A		C	P	1	Y1	Yo	V			
	0	0	0	0	V	0	0	1.200121212			
	0	0	1	0	al C	0	1	I O I TO O O			
	0	0	1	1	0	0	1	1 1 1 0 0 0			
	0	1	0	0	0	1		100100			
	0	1	0	1	0	1	0	1 10100			
100	0	-	1	D	-	3	0	100030			
1000	0		1	1	0	1	0	1 10010			
	1	0	0	D	6	1	1	100001			
	1	0	0			1	1	1 10001			
	1	0	1	0		1	1				
	1	0	1	h.0	+ 8	1	1	1 7. (a+A) = X			
	1	11	0	-		1	1	1			
	1	11	5	1	4	1	1	1			
	1	(		)	13	1	1	1 3 9			
	1	1 1		1	A	1	1	1			
	. ,		,		14		-				
	V			0	× .	- 1	++	ēC .			
	$Y_1 = A + B $ $Y_2 = A + BC$										
	V = A+B+C+D										
			-			. 1		The same of the sa			



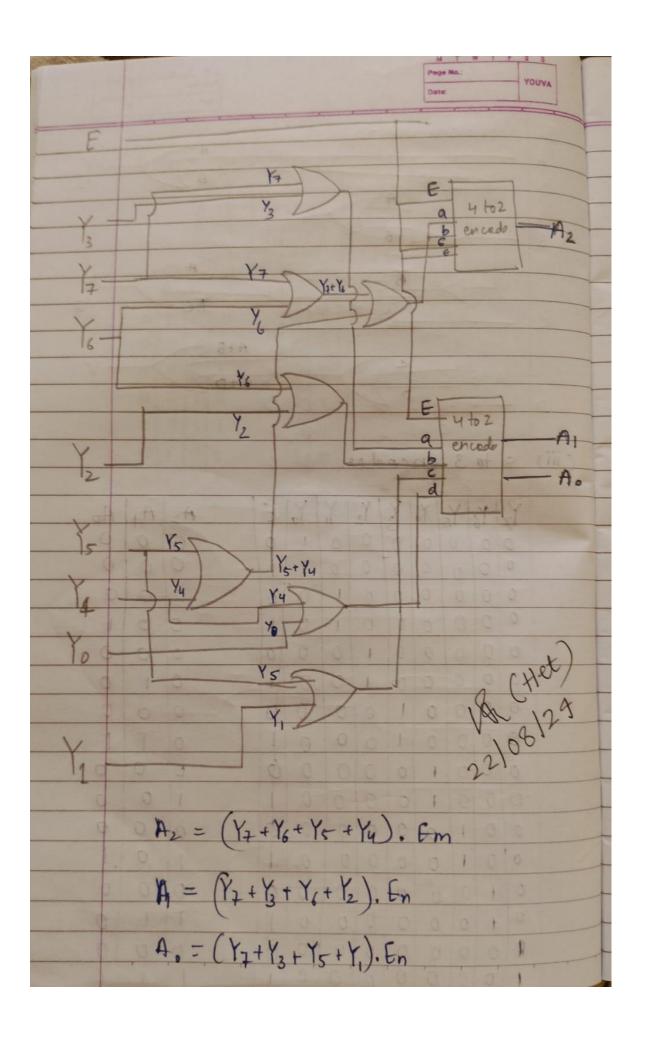
# Simulations





# 3. 8to3 Encoder

1										3			
(iii)	8 to 3 encoder												
The													
	Yz	146	Y5	14	Y3	1/2	Y	Yo	E	A <sub>2</sub>	A	Ao	
	0	0	0	0	0	0	0	i	0	0	0	0	
	0	0	0	0	0	0	0	No.	1	0	0	0	
	0	0	0	0	0	0	1	0	0	0	0	0	
	0	0	0	0	0	0	1	0	18	0	0	1	
	0	0	0	0	0	1	0	0	0	0	0	0	
140	0	0	0	0	0	1	0	0	1	0	1	0	
100	0	0	0	0	1	0	0	0	b	0	0	0	
5 1	0	0	0	0	1	0	0	0		0	1	1	
		0	0	1	0	0	0	0	0	0	0	0	
	0	-				0	0	0		1	0	0	
	0	0	0	1	0	7	0	0	0	W 0	10	0	
	0	0	1	0	Q	0			1	1	0	1	
	0	0	1	0	0	0	0	0	1	10	10	0	
	0	1	0	0	0	0	0	0	9	1	1	0	
	0	1	0	0	0	0	0	0					
	•	0	0	0	0	0.	0	10	0	0	1		
	T	0	0	0	0	0	0	0	1		1	IL H	



# Simulations

