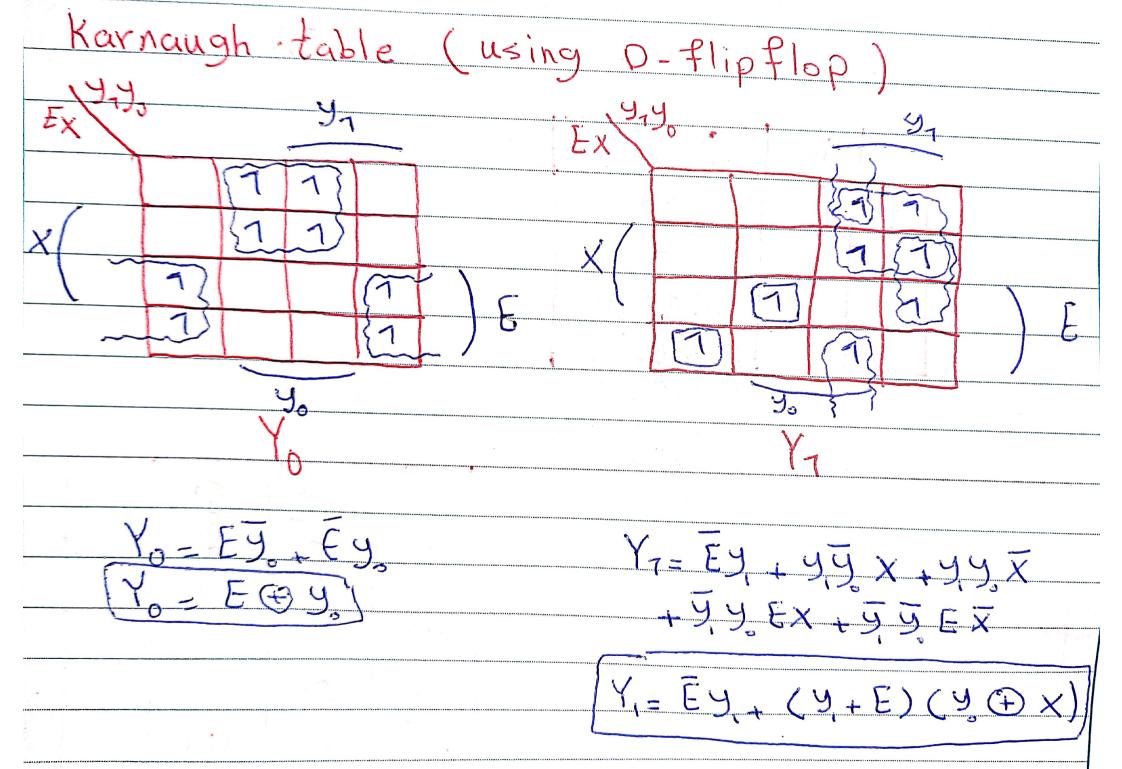
Up-Down Counter with Enable State diagram E=0, x=0.1x = 1, E = 1x=1 , E=1 x = 0X=0 X = 0,7 E=0 E = 0 X=0,1 X=0 \E=1 x = 0E=1 X = 1, E = 1x=1, E=7 E=0, x=0,1

state table (Implementation Using D-Flip Flop)

			Next	state		annunga aran tanungan mengalak salah salah mengan	y kipinik hitariya
P	resent				, 3.51	output	
	state	E =	O	E	=1	,	e verse s son hat emilisianiste
		X = 0	x = 1	X = 0	\ X=7		possioner
	Α	Α	A ·	D	B	0	ندر د در د در
	B.	В	B	A	C	1	
		C	C	В	<u> </u>	2	
	D		D		A	3	
L						7	

			4		7-2			
****) 		Next	t stat			
	(ent			Output			
	sta	te	E	7 O	E=	1	The state of the s	
			X=0	(X = 1	X = 0	X=7		
	4	y ₀	Y1 Y0	Yn Yo	Ya Yo	Ya Yo	Z1 Z0	
	Ŋ	0	00	00	11	01	0 0	
	0	7	01	01	00	10	01	
	1	0	10	10	01	11	10	
	1	1	11	11	10	0.0	11	
	n de weranataian					-		



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State table (Implementation using JK-flipflop)

の の の の の の の の の の の の の の の の の の の	J	K	Qnext
	Q .	0	(T)
The second second second	()	1	0
	1	0	1
	1	1	~Q

	Next State												
Current State	E = 0					E = 1					Output		
	X = 0		X = 1		X = 0		X = 1						
y1 y0	Y1 Y0	J1 K1	J0 K0	Y1 Y0	J1 K1	J0 K0	Y1 Y0	J1 K1	J0 K0	Y1 Y0	J1 K1	JO KO	z1 z0
0 0	00	0 d	0 d	00	0 d	0 d	11	1 d	1 d	0 1	0 d	1 d	0 0
0 1	0 1	0 d	d 0	0 1	0 d	d 0	00	0 d	d 1	10	1 d	d 1	0 1
1 0	10	d 0	0 d	10	d 0	0 d	01	d 1	1 d	1 1	d 0	1 d	1 0
1 1	11	d 0	d 0	11	d 0	d 0	10	d 0	d 1	00	d 1	d 1	1 1

