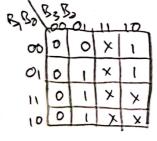
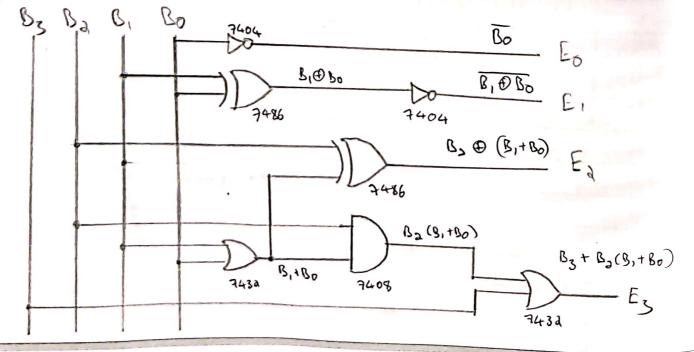
1	33	Bo	Bı	Bo	E3	Fa	E,	Eo
	0	0	0	D	0	0	ι	1
	0	0	0	1	0	١.	0	D
	0	0	1	0	0	٦١	0	13
	O	0	ı	1	0	l	١	O
	0	ι	0	D	0	1	و	Ī
	0	1	0	1/2	17	0	0	0
	0	1	1	O	- L	0	0	1
	0	1	1	1	- l-	0	L	0_
	١	0	0	0	1	0-	- [-	1
	1	0	0	1		(0	0

G, Bo	B3Ba				
00		ŀ×	1	1	
01	0 0		0		
in t	0 0	X	X		
10[X	X		
	Eo	= 13	30		
Bo 0001 11	-2/31		\B2B2		
00 1 1 >	10	BIB	_	0111	10
0100 x		C	0 0	0 >	0 0
(1 1 1 ×				0 >	-
10 0 0 1 7	(× 1	10		OX	X
E, = B	·, BBO		£	= B E	(B,+
				0	,





_	No
	3. Code convertors
	AIM:
	to design and implement:
	a) B(D to excess-3
	ii) Binary to Cray code convertors
	COMPANIES DE AMOSS
1	COMPONENTS REQUIRED:
1	IC Traver Ret, IC 7486, IC 7408, IC 7404, IC 7432
	THEORY:
7	To convert BCD to XS-3 code, a busing three (0011)
	es added to corresponding BCD and thus obtained. BCD is only valid upto benary 9. after which the
	RCD is only valid upto binary 9 after which the
	States are invalid
	To convert a himan sumbor to corresponding gray colo
	To convert a binary number to corresponding gray cake the following rules are applied:
	-> The MSR in code is same as consumptioned death
	un binary code while going trem left to right.
	each adjacent pain by through sight is early to get
-	the next gray code digit.
	-> To design a binary to gray code convertos

Burary to Crosay code

	500	U	LØ	Olay	COU	•	
133	Ba	В,	Bo	G13	6,	G,	600
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	1
0	0	1	D	0	0	ι	1
0	0	1	ı	0	0	l	0
0	1	0	D	0	ι	l	D
D	ι	O	1	0	ι	(5
0	1	١	ס	0	ı	0	l
0	1	1	1	0	1	0	O
1	D	0	0	ı	1	0	0
1	0	0	1	(8	1	0	13
١	0	1	D	ι	ι	ι	,
1	0	1	1	1	ι	l	0
1	1	0	0	l	0	1	Ô
1	1	0	1	1	0	1	76
1	1	1	D	1	0	٥	1
1	1	1	1	l	0	0	Ō

8,80/F	3382	01	Ц.	10		
00.	0	0	0	D	,	
01	ι	1	1	ī		
"	0	0	0	0		
10		1	1			
Gn = B, AR						

887	33B2	,01	. 11	17	
BBB	0	,			
06		-		0	
01	0		Ì	0	
11	1	0	0	1	
10	1/	0	0	1	
			-		

ح ر =	B, OB
-------	-------

8,80	B 3 8	2	(1	10
00	0	(0	ĬĬ
01	0	1	0	
4	0	1	0	
10]	0.	1	0	
7000	G) a =	B	⊕ B ₃

8,80/9	33 B	01	11	10
00		0	(
01	0	0	1	
1)	0	0	1	-

BIO BO COLO
7486
B 2 + B, G1,
Ba@B3
7486 B3 (B

Expt. No
'setup a bruth table with binevry runders Bz B, Bo
Stup a circuit realizing the simplified logic expressions obtained using k-map for Cr's as function of B's.
PROCEDURE 1. Test all components and IC packages using multimeter digital IC tester.
2. Plence ICs on Kut and make sure that the VCC and GIND are properly done.
3. Set up the wrute and feed input combinations 4. observe output for given input cade. 5. Verify truth table for all cases
RESULT
Designed and setup following coche conventions concents: i) BCD to XS-3 ii) 4 but binary to gray cocho

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