OBJECTIVE:

Study of gray code to Binary code Conversion

EQUIPMENT NEEDED:

Component

D IC7486 2 input XOR gate

quantity

THEORY:

The gray code belongs to a class of codes called minium

change Codes, in which only one bit in the code changes when

maving from one bit in the code changes when maving from one

code to the next cray code is non weighted, as the position

of the bit does not contain any weight. The gray code is

reflective digital code which has the special property that

any two subsequent number codes differ by only. This is

also colled distance code.

FOR EDUCATIONAL USE

BROCEDURE when switch is pressed it indicates 'High position when switch is upressed it indicates 'Low' position 1 take connections in bread board as shown in figure @ Connect +SV to pir 14 (3) Comment inputs 10-13 to 600-613 1 Commet auteul 80-B3 to 80-03 of 10 bil ted indicater (5) switch ON the ket. (3) Set the input switcher 50-53 to low initially.

(3) Observe outputs B3-00 on bd L5-10 of 10 bit fed indicater. (Verify truth table for input combinations

77				Binary			
	Gro	18 (ode	68	B3	B2	81	10
63	612	J 612	10	6	0	0	0
0	0	0		0	0	0	Library .
0	0	1	12	0	0	1	0
0	0		0	0	0	d bis	and to
0	0	Ny -	0	0	1	0	10
0			1	0	do	0	Soul
0		0	P	0		to	16
0	1	0	0	0	1	281 18	0
1	0	0	0	1 25	0	0	6
[0	0	6	The state of	0	A	,
1	0	1		1	0	113	
1	0	N	0	- May	0	299	0
1	5	1	Ö	7-1	1		
1	31		1	+-	4-4	0	0
1	1	0	T	-	1	0	1
	1	0	0	1	1	1	0

Conclusion:

Crowy code to Binary code conversion is studied. Most significant bit of gray code as well as binary is born as for as 4 bit code is convered.

Assessment of the Experiment / Assignment :

Timely Submission (07)	Presentation (06)	Understanding (12)	Total (25)	Signature of Teacher with date
07	06	- (1	24	TRUC 1 7/10/24