NAME: RAHUL GOEL

REG NO: RA1911030010094

Batch: O2-TP304

Year: 2nd

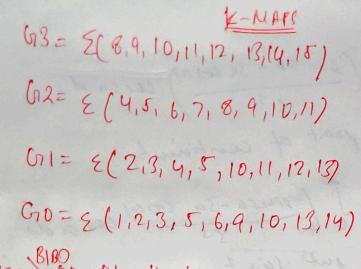
Semester: 3rd

Subject Code: 18CSS201J

TITLE: Design the code converter to convert Binary data into Gray code data using Multisim software. Draw the truth table and show the simplification using K Map.

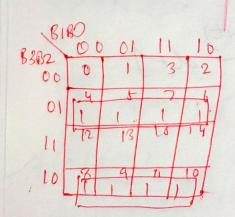
Aim	2	
Circuit diagram / Logic diagram, Tabulation, Formula / K map simplification, Procedure, Timing diagram, & Document submission	10	
Execution & Result	8	
Viva	5	
TOTAL	25	4

	RUTH T	ARE			-	1.	
1	Binary			6	ray C	ode	77
83	82	BI	BO	C13	C12	G1	60
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	1
0	0	1	0	0	0	1	
0	0	1	1 1	. 0	0	111	0
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	0	0	D	1	0	0	0
	0	0	1	1	0	0	
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121	(1)	0	0				U
	+ 7001 -	D				O	0
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			0	1	1	1	1
	(Pall)			1	1	1	0
						1:-	

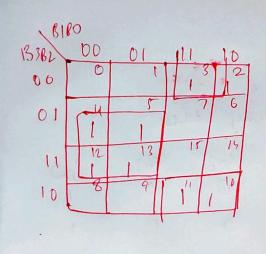


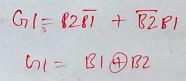
B3 B2	00	01	11	,16
00	0	1	3	2
01	4	5	7	6
11	2	13	15	14
10	1	1 9	1 1	10

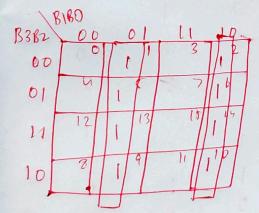
C13= B3

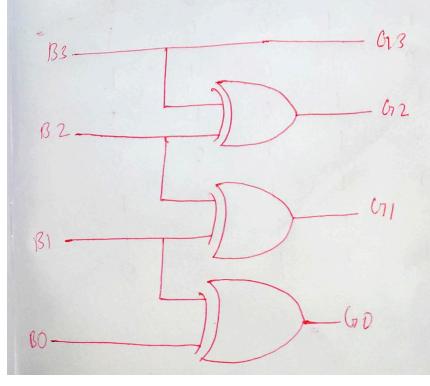


012 = 183 182 + 183 182 01 2 = 183 (182)

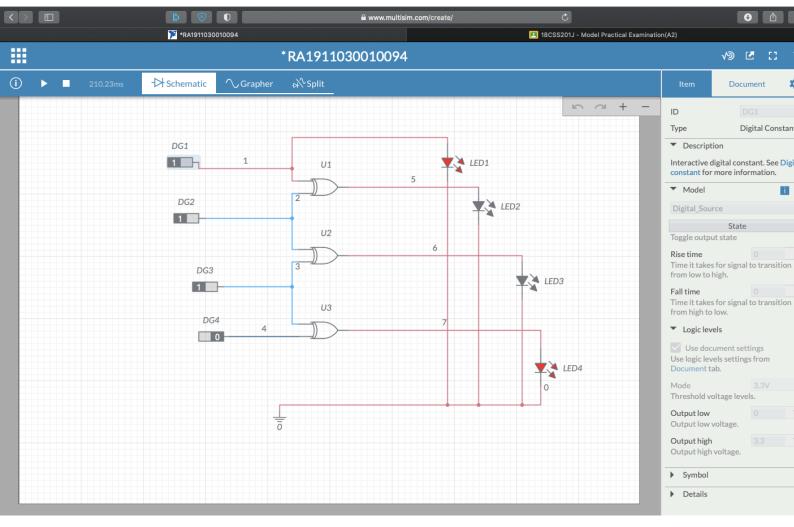








$$C73 = 183$$
 $C73 = 18382 + 8382$ 
 $C72 = 83 82$ 
 $C72 = 83 82$ 
 $C71 = 8287 + 8281$ 
 $C71 = 81 82$ 
 $C72 = 81 82$ 
 $C73 = 81 83$ 
 $C73 = 81 83$ 



## **VIVA QUESTIONS:**

- 1. 6 selection lines
- 2. AB'
- 3.Because its two basic functions are data storage and data movement. Each flip-flop in a shift register represents one bit of storage capacity.
- 4. Q(next) = S+R'Q SR = 0