CSE260 Lab Report

Experiment Name: Applications of Kmap method

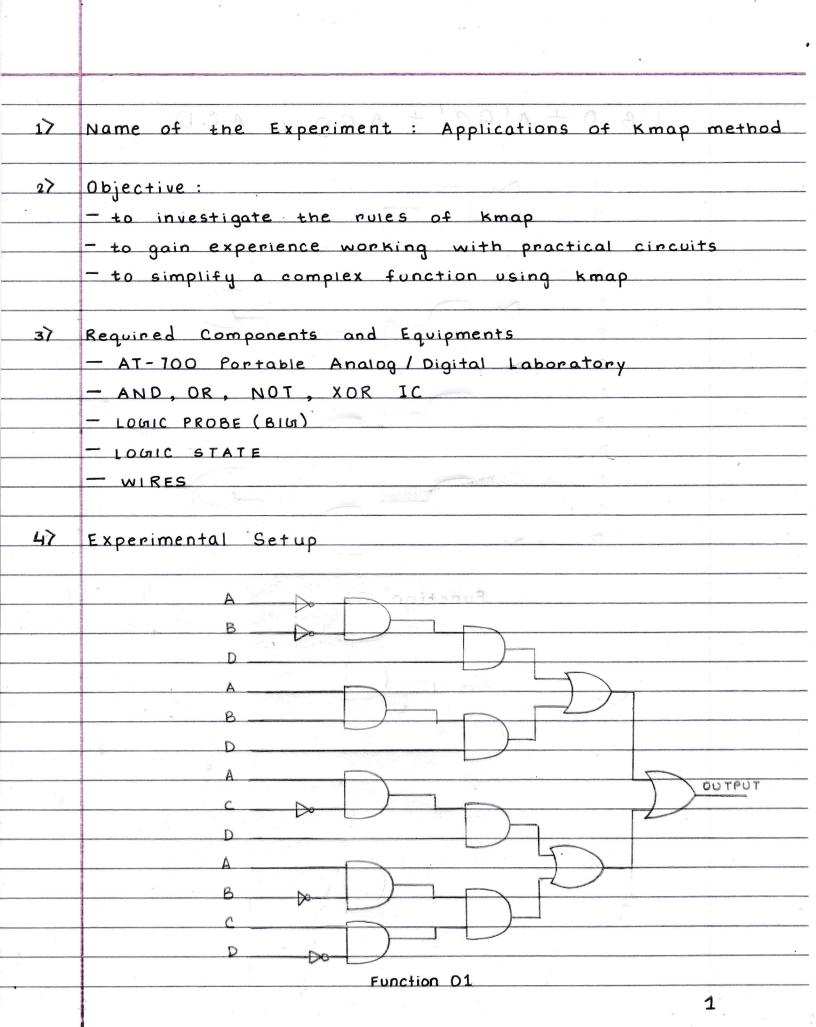
Submitted by

Name: Shaiane Prema Baroi

ID: 19241019

Section: 05

Date: 29 / 11 / 2020



Function 02 Function D1

	, c , D)	Q	D	8	A
	C'D'	C'D	CD	c D'	
A'B'		15, = -		0	0 1
	0	1	3	2	C .
A'B			a de la companya de l		0
	4	5	7	6	0 - 1
AB		4	1	editoria.	0
- 0	12	13	77 15		0 -
AB'		1		1	O
0	S	9	- 11	10	<u> </u>
0	$(C, D) = \sum_{n=1}^{\infty}$			D + AB'	
0				0	
0		(1,4,1	0 , 15) +	d (3,13,	
F(A,B,	c, p) = \(\sum_{0} \)			0	
F (A, B,	c, p) = \(\)	1,4,1 1,1	0,15) +	d (3,13,	
F(A,B, A'B')	c, p) = \(\sum_{0} \)	(1,4,1	0 , 15) +	d (3,13,	
F(A,B,	c, p) = \(\)	1,4,1 1,1	0,15) +	d (3,13,	
F (A, B, A'B') A'B	C, D) =	(1,4,1) 11,1 1,1 1,1	0,15) +	d (3, 13,	
F(A,B, A'B')	C, D) =	(1,4,1) 11,1 1,1 1,1	0,15) +	d (3, 13,	
F (A, B, A'B') A'B	c, p) = >	(1,4,1) 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	0,15) +	d (3, 13,	

1	(a)	INPU	OUTPUTS		
	Α	В	C	D	
		Nes	95	0.0	'd'5 ,
	0	· O .	0	0	0.4
	O	0	S 0		
	0	0		0	0 14
	D	0	L		
	O	1	Ö	0	088
2	0		0		0
		1		0	0'84
	0	1	77	0 4	0
	1	0	0	0	0
		84 0 0	0 A O +	DRALEO	Answent = A'8'
		. 0		0	1
0	(HL 8	0 B	1	H (II)	= (Q O Q A) 7
			Ö	0	0
			0		10 'A
				0	0.
		1 1	1		1314
		1 p · · · · ·	The second secon	X	<u> </u>
	STATE OF THE PROPERTY OF THE P		47	P	A 181 A
	SE CONTRACTOR DE	the contract of the contract o			
		,00	C D		(4.01)

2. INPUTS A B C D O O O O O O O O O O O O O O O O O O		
A B C D O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O I O O O O	OUTPUTS	
	4.7	
on on the state of		
and and Olo and II and		
cha poient in a port 101 and 20 T anises and 0 Landing of the part		
cha poient in a port 101 and 20 T anises and 0 Landing of the part	3	
state de la la compania de la compania del compania del compania de la compania de la compania de la compania del compania d		
solutio II timen Op a Iviquita Opaga samina I han sasul sidosa vilial and geometrical part and optimalia		
to the total pridrick of the land have		
topograp dat todt paidaide sole ud shie headt beset	A	
topograp dat tode pridaide sois to ship hade basis		
tilpad of doit ache at les land am Mond IT Katdaran das	1	
	IA/	
T and courses T daidy seems adv is etent as	4	
had the connections with wines I obtained be		
coupate peaults and appointed the expeniment surpressur		
	/	
	and the second s	

Discussion

In this experiment, we had learnt how to construct a circuit from a given circuit by using K-map. At first, the task at hand seemed quite complicated to me. Even though I had a clear concept and understanding behind the idea of K-map, it took me some time to visualise how to use the simplified expression to construct the circuit. Then, I decided to take one step at a time, and started to evaluate the function into a simplified expression using the K-map. After I had obtained the simplified expression, I constructed the circuit using AND gates and, OR gates and NOT gates in place of dots, pluses and primes respectively. As a result, I obtained two circuits for two functions. However, one silly problem which I faced during the experiment was that I did not connect two close components with wires. I just placed them side by side, thinking that the components were connected. It took me quite some time to realise the poots of the eppops which I peceiving. Once, I had secured the connections with wires, I obtained accurate results and concluded the experiment successfully