## **CSE260 Lab Report-5**



**Experiment**: Applications of Kmap Method

## **Group-1:**

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It Name of the Experiment.

Applications of Kmap Method

To investigate the rules of kwap

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To gain experience working with practical stuff.

To simplify a complex function using imag.

It required components on Equipments!

2. AT-700 Pontable analog/digital laboratory.

2. AND, OR & NOT IC. 3. Wines, trainer board & bread board

At Experimental setup.

For conducting this experiment a trainer board, briend board, wires and 1 TC-7408 AND gate, 1 IC-7432 OR gate & 1 IC-7404 NOT gate were used here. Here, 14, no pin 95 connected to the tree (+54) and 7 no pm to the GND postion of the breakoand Now, at first for the finst experiment. to I or my mo

1. A & D were taken as 2 inputs in AND gate pin no 1 & 2 respectively. Then another new input is was taken in pin no. 4. But this time another input is the inversion of D 30 NOT gate was used here. Henry Hence, at NOT gate pin no 1 was used as input and pin no 2 was connected to pin vos of AND gate by a wine. And the resultant output from pin no 2 was connected to pin no 5 of AND gate After that a new gate was used for a resultant output. From pin no 3 & 6 two outputs were taken as inputs of DR gate at pin no 1 & 2 respectively. Furthermore, A way again taken as input at pin no 10 and another new Input c was taken at pin no 9. However, now the input B is invented so again the NOT gate was used. Therefore, from por no 2 of NOT gate an input

was taken to AND gate of pin no 18 via a wine and the output from pin no & was corrected to pin no 12 of the smilar gate After that, through a wine for no 36.6 was used as two inputs of OR gate at pin no 162 accordingly And finally, pin no 11 of AND gate and pin no of or gate were taken as "inputs fore the OR gate again at pin no 465 respectively. Thus, we got the resultant output at pin no 6 of OR gate

2. Here, at first A & B were taken as input and connected at fin no 1 & 2 via AND gate. and connected at fin no 1 & 2 via AND gate. Then, again o was taken as input at pin no 4 and here a new input C was taken to the Not gate pin no 1 by a wine and the output was taken by another wine from fin no 2 to pin no 5 of AND gate After that, from pin no 3 & 6 of the AND gate we got 2

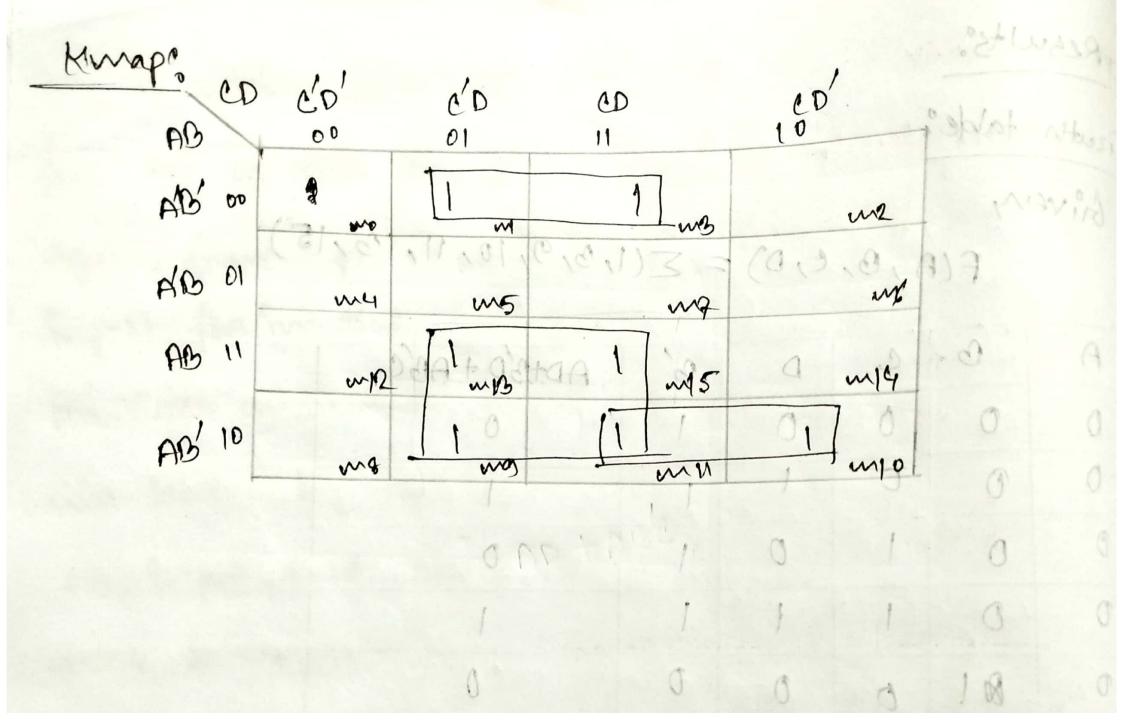
outputs which later on was taken as imputs for an OR gate at pin no 1 & 2 serially. Then again, from plu no 1 A way taken as an input for in the NOT gate of pin no 3 by a wire and the output from pin vo 4 was taken by another wine to pin no 10 as input but here another new input was taken which is D at pin no o and the output was connected to the OR gote of pin no 4 later on lastly, at pin no 5 the output of pin no 3 was connected through a wine which gave us the final and connected at output at pin no b. toon a vigor a view of word from English C was token to the

no I by a votree and the on

A Givery

F(A, B, E, D) = \(\S(1, 3, 9, 10, 11, 13, 15)\)

A	6	C	D	6'	ADTED + AGC
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0	0	D	1	The	The same
0	0	1	0	1	O
0	D	1	1	1	1
0	80 1	D	0	D	0
0	1	0	1	0	0
0	1		0	0	0
0	1	1	1	0	D
1	0	0	0	1	0
1	0	0	1	1	ı
	0	1	0	1	0
	0	1	1	1	1,
1	1	0	0	0	0
	1	0	1	0	1
	1	1	0	0	0
100	1	1	1	0	1



2. Giver

F(A,D,C,D)===(1,4,15) Ad (B,5,7,12,18,14)

nuth	tavie	-		X.			1	9.0	
		8.7			10	Lie			
A	0	C	D	A	c'	AB+BC+A	0	10	
0	0	0	0	1	(		N X		
0	0	0	1		1 16				
0	0	b	0	1	0	Do	9	97	
0	0	t	1	· (	0	1			
0	1	0	0						
0	1	0	1	1	(		Source .	ugai o	
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	0	0	0	0	200	Noiva.	Speriments	VVX	
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1	0	1	1	0	0	0	ALL SOLD GIA	13	
	1	0	D	0					
		0	1	0					
1	1		0	0	0	1			
1	1	1	l	0	0				

