DIGITAL SYSTEM

PRACTICUM REPORT 6: KARNAUGH MAP



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2019

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CLASS : X

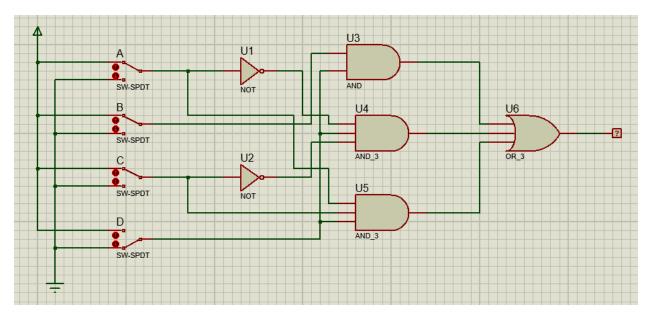
ASSISTANT : SALSA SASMITA MUKTI

DATE OF PRACTICUM : Friday, April 26th 2019

EXERCISE 1

		AB				
		00	01	11	10	
CD	00	0	0	0	0	
	01	1	1	1	0	
	11	0	1	1	1	
	10	0	0	0	0	

Boolean Function : F = BD + A'C'D + ACD

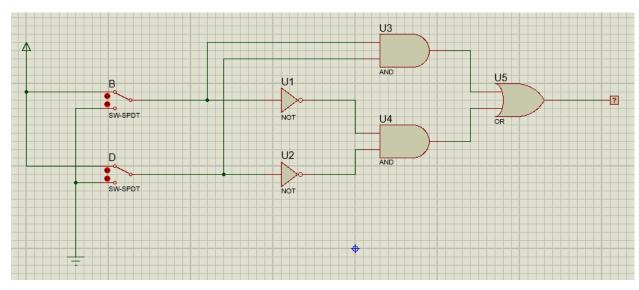


EXERCISE 2

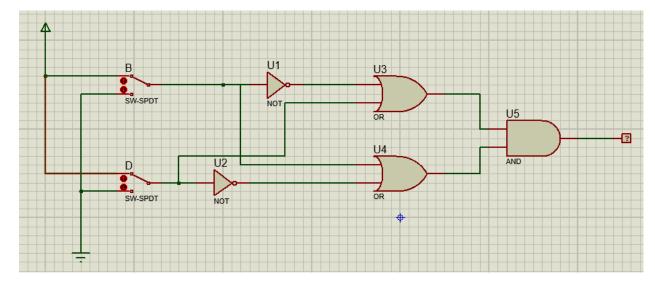
		AB				
		00	01	11	10	
CD	00	1	0	0	1	
	01	0	1	1	0	
	11	0	1	1	0	
	10	1	0	0	1	

Boolean Functoin:

$$F = BD + B'D'$$
 (AND-OR)



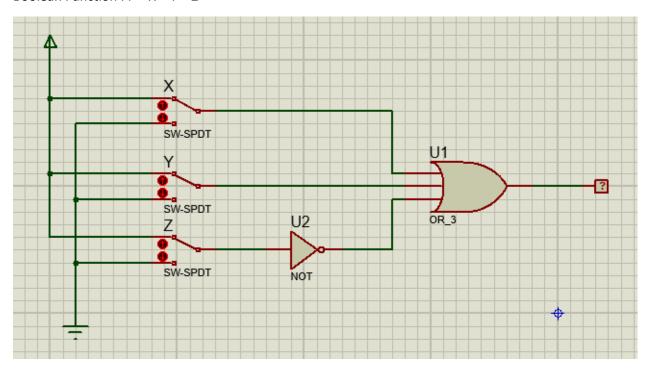
$$F = (B' + D')(B+D')$$
 (OR-AND)



EXERCISE 3

		XY			
		00	01	11	10
Z	0	1	1	1	1
	1	0	1	1	1

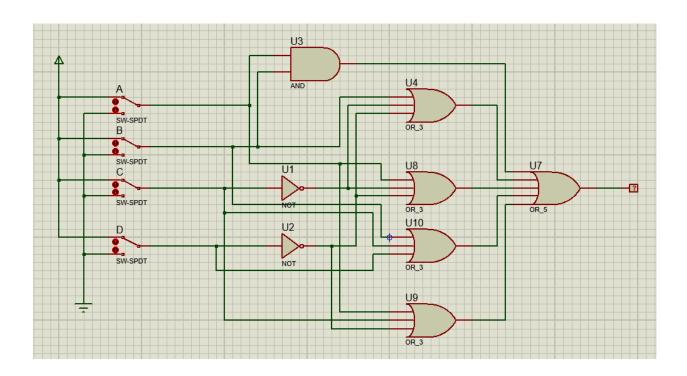
Boolean Function : F = X + Y + Z'



EXERCISE 4

		AB				
		00	01	11	10	
	00	0	1	1	1	
CD	01	0	0	1	0	
	11	0	1	1	0	
	10	0	0	1	1	

Boolean Function : F = AB + BC'D' + AC'D' + BCD + ACD'



EXERCISE 5

		AB			
		00	01	11	10
CD	00	1	0	1	0
	01	1	0	1	1
	11	1	1	0	0
	10	1	1	0	1

Boolean Function : F = A'B' + ABC' + AC'D + A'CD + B'CD'

