

DIGITAL SYSTEM

PRACTICUM REPORT 6 : KARNAUGH MAP



NIM : L200183094

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INFORMATION TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATICS

MUHAMMADIYAH UNIVERSITY OF SURAKARTA

2019

NIM : L200183094

NAME : FARAH HUSNA PARAMADINA

CLASS : X

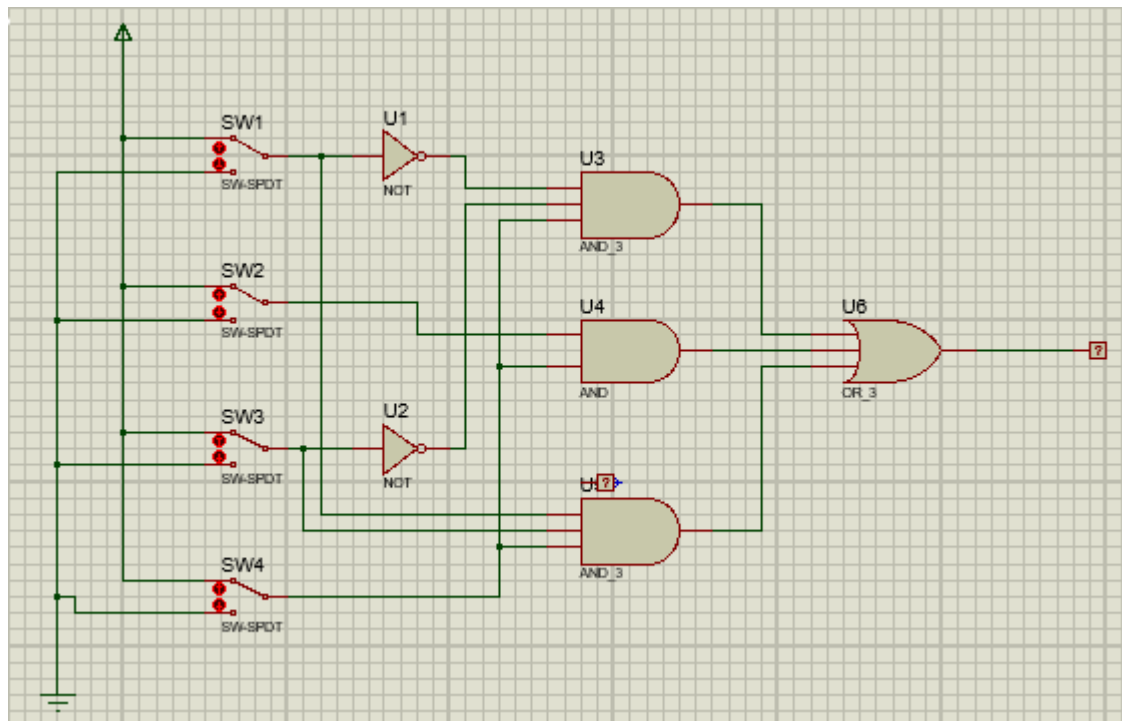
ASSISTANT : SALSA SASMITA MUKTI

DATE OF PRACTICUM : Friday, April 26th 2019

• ASSIGNMENT 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

$$F = BD + A'C'D + ACD$$

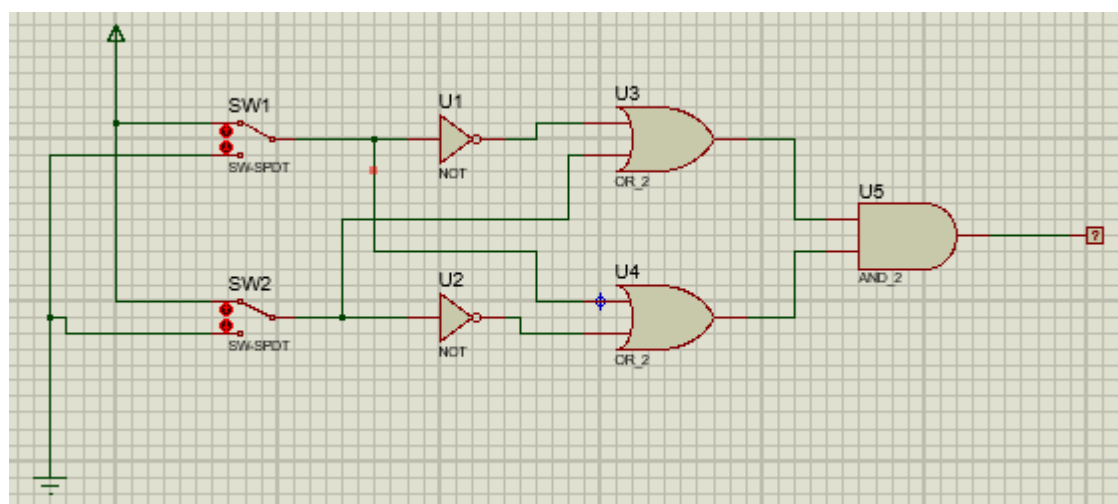
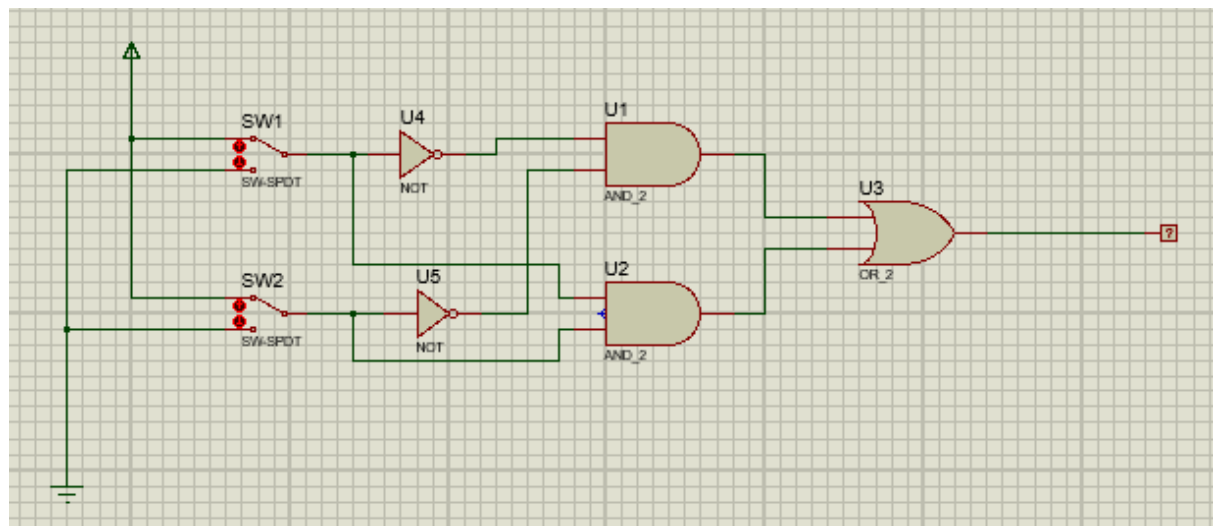


- ASSIGNMENT 2

		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

$$F \text{ SOP} = B'D' + BD$$

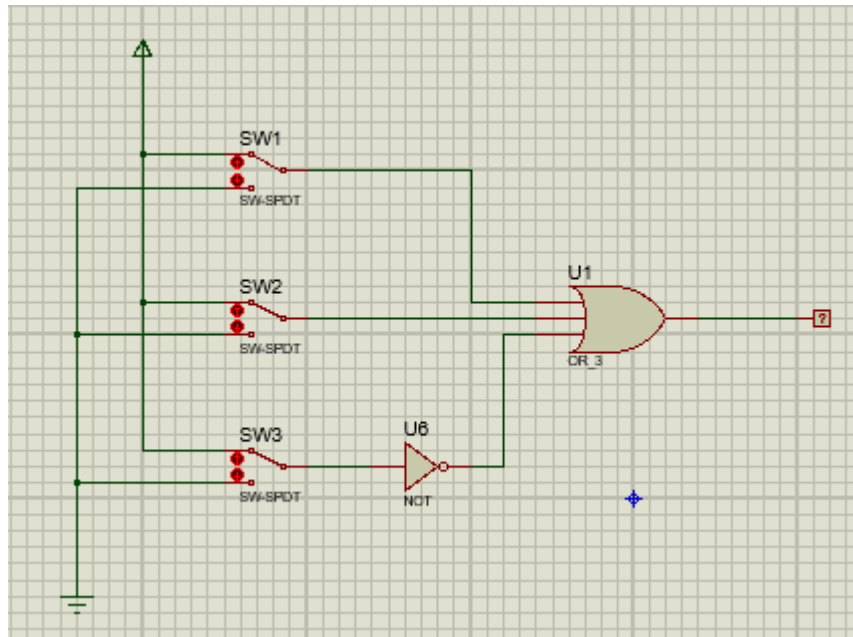
$$F \text{ POS} = (B+D')(B'+D)$$



- **ASSIGNMENT 3**

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

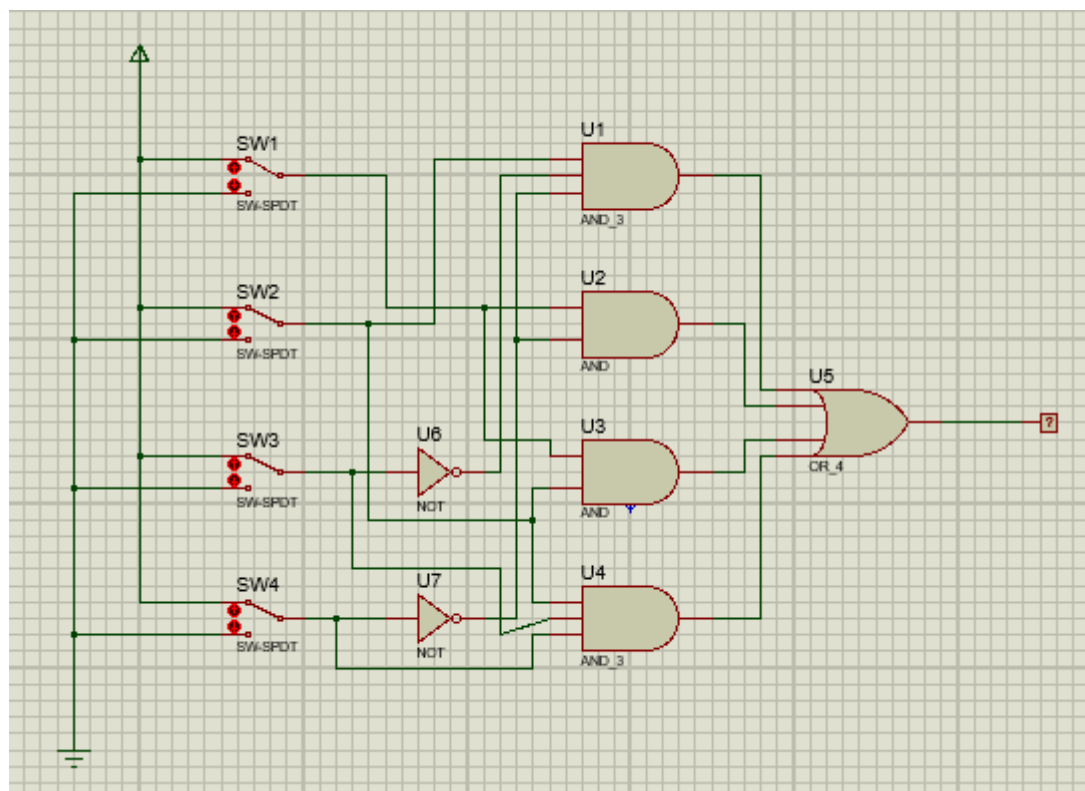
$$F = X + Y + Z'$$



- ASSIGNMENT 4

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

$$F = AB + C'D' + BCD + AC'D' + ACD'$$



- ASSIGNMENT 5

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

$$F = A'B' + ABC' + AD + A'CD + B'C$$

