LAPORAN PRAKTIKUM SISTEM DIGITAL

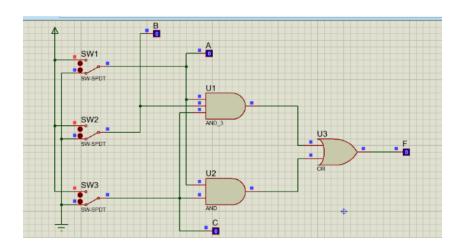


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KEGIATAN PRAKTIKUM

Percobaan 1

1. Membuat kombinasi gerbang logika



2. Fungsi Boolean : F = ABC + AC

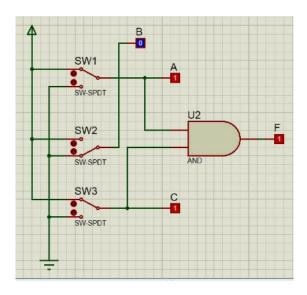
3. Tabel Kebenaran

Α	В	С	F
0	0	0	0
1	0	0	0
0	1	0	0
1	1	0	0
0	0	1	0
1	0	1	1
0	1	1	0
1	1	1	1

4. Karnaugh map

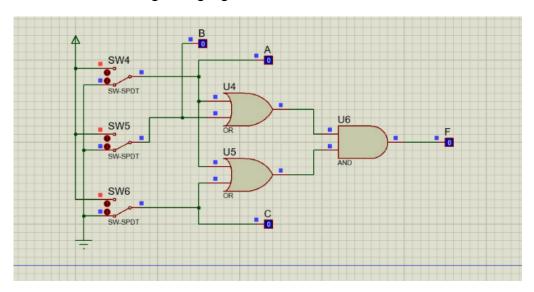
		AB			
		00	01	11	10
С	0	0	0	0	0
	1	0	0	1	1

5. Penyerderhanaan Fungsi Boolean: F = AC



Percobaan 2

1. Membuat kombinasi gerbang logika



2. Fungsi Boolean: F = (A+B). (A+C)

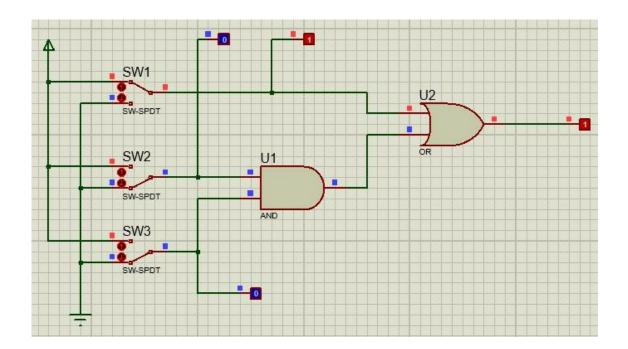
3. Tabel kebenaran

В	С	F
0	0	0
0	0	1
1	0	0
1	0	1
0	1	0
0	1	1
1	1	1
1	1	1
	0 0 1 1 0 0	0 0 0 1 0 1 1 1 1

4. Karnaugh map

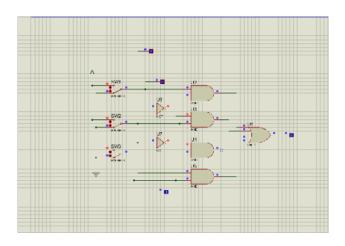
		AB			
		00	01	11	10
С	0	0	0	1	1
	1	0	1	1	1

5. Penyerderhanaan Fungsi Boolean: F = A + BC



Percobaan 3

1. Membuat kombinasi gerbang logika



2. Fungsi Boolean : F = AB + A'B + B'C + BC

3. Tabel Kebenaran

Α	В	С	F
0	0	0	0
1	0	0	0
0	1	0	1
1	1	0	1
0	0	1	1
1	0	1	1
0	1	1	1
1	1	1	1

4. Karnaugh map

		AB			
		00	01	11	10
С	0	0	1	1	0
	1 (1	1	1	1

5. PenyerderhanaanFungsi Boolean: F = B + C

