

Nama : Banu Wisnu Murti

NIM : L200180133

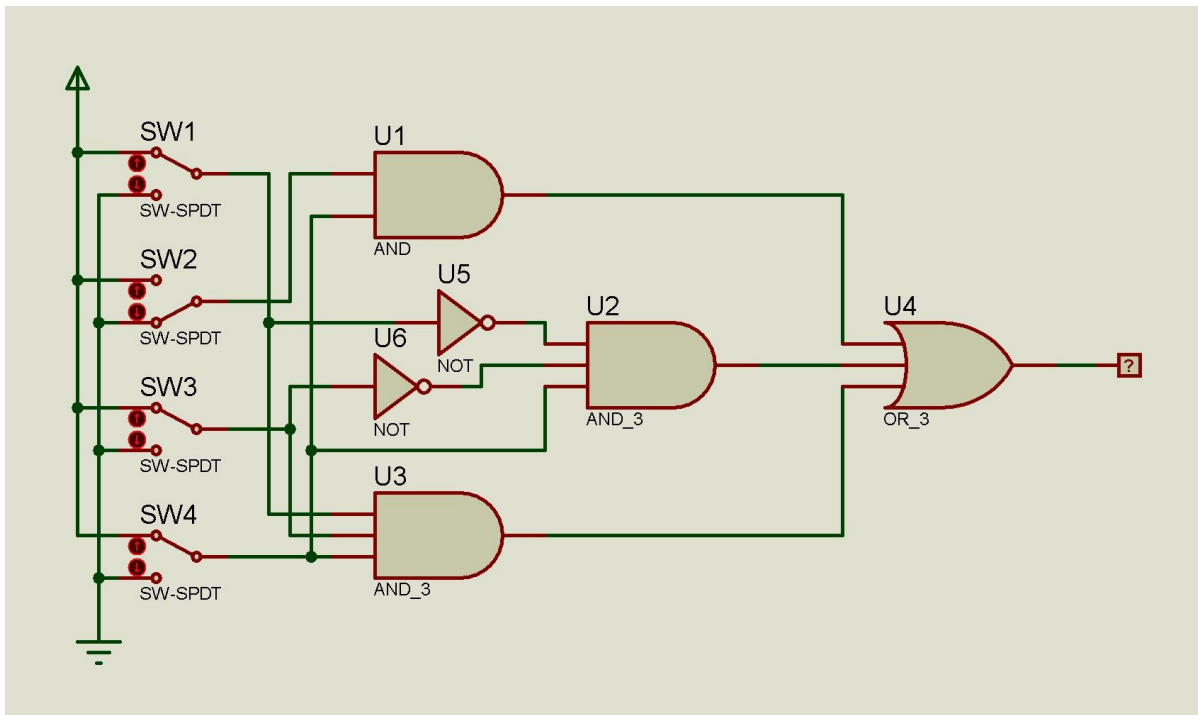
### Percobaan 1

$\begin{matrix} AB \\ \backslash \\ CD \end{matrix}$	00	01	11	10
00	0	0	0	0
01	1	1	1	0
11	0	1	1	1
10	0	0	0	0

Fungsi boolean sederhana :

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

Gambar :



## Percobaan 2

<div>AB CD</div>	00	01	11	10
00	1	0	0	1
01	0	1	1	0
11	0	1	1	0
10	1	0	0	1

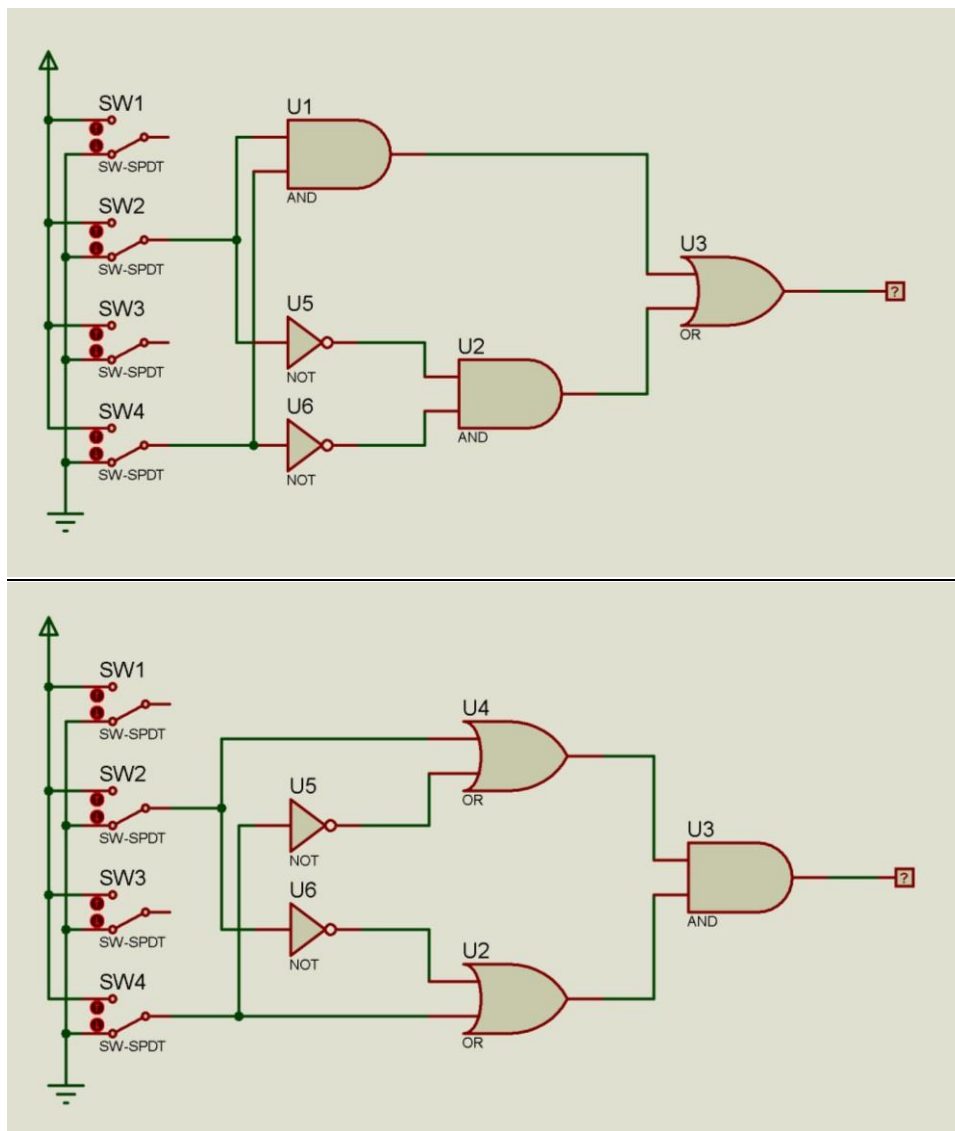
Fungsi Boolean sederhana :

$$F = BD + B'D' \quad (\text{AND-OR})$$

$$F = (B + D')(B' + D) \quad (\text{OR-AND})$$

### Percobaan 3

Gambar :



Fungsi Boolean :  $F = XYZ + XYZ' + XY'Z + X'YZ + X'YZ' + XY'Z' + X'Y'Z'$

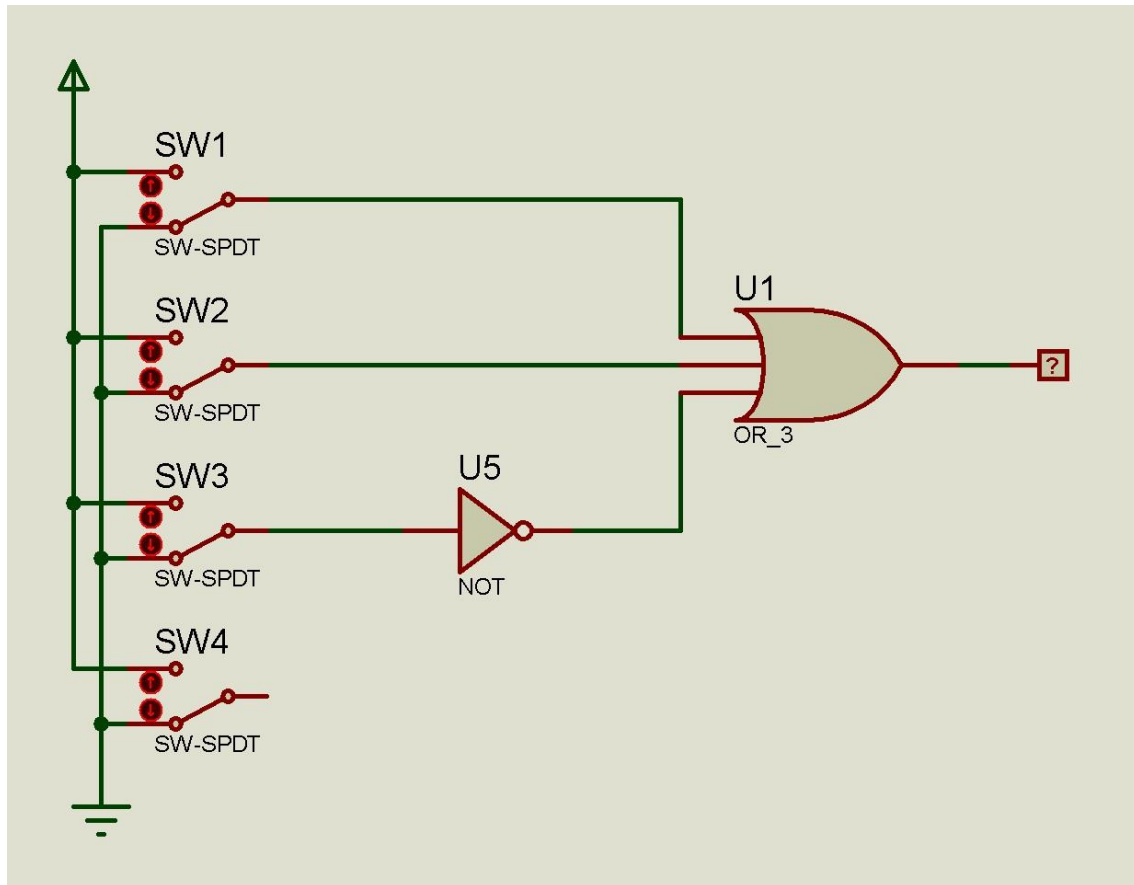
z \ xy	00	01	11	10
0	1	1	1	1
1	0	1	1	1

Fungsi Boolean sederhana :

$$F = C' + B + A$$

Gambar :

## Percobaan 4



Fungsi Boolean :  $F = AD' + ABC + ABC' + BCD + BC'D' + AB'CD'$

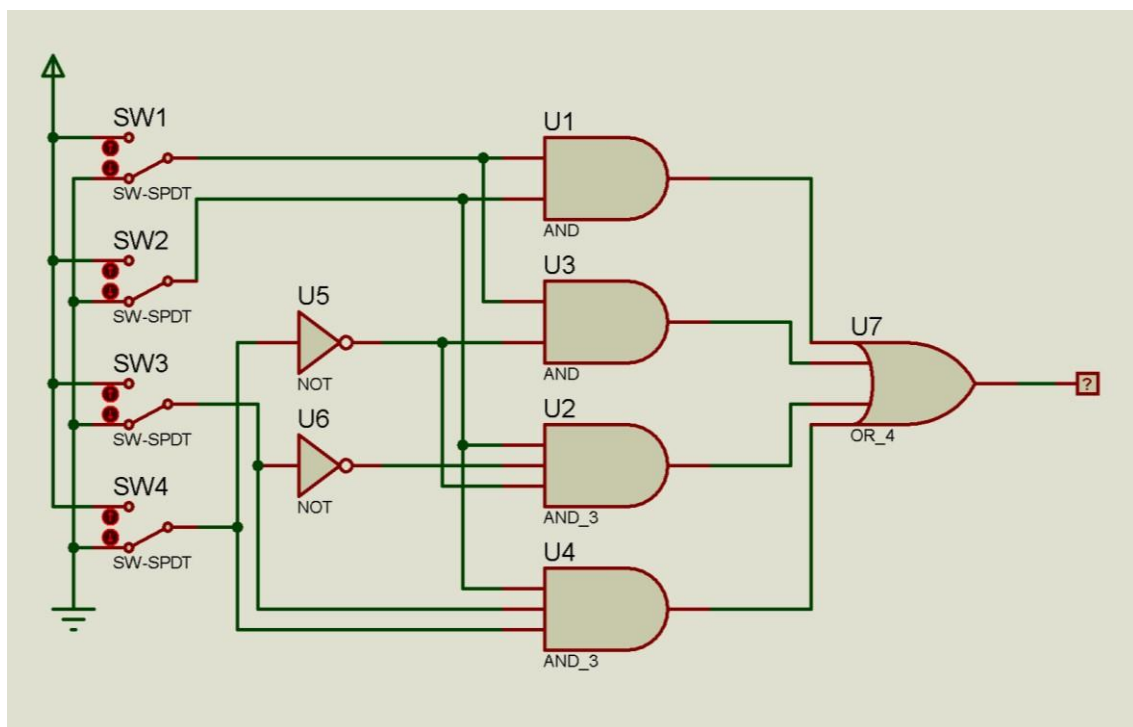
## Percobaan 5

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

Fungsi Boolean sederhana :

$$F = AB + AD' + BCD + BC'D'$$

Gambar :



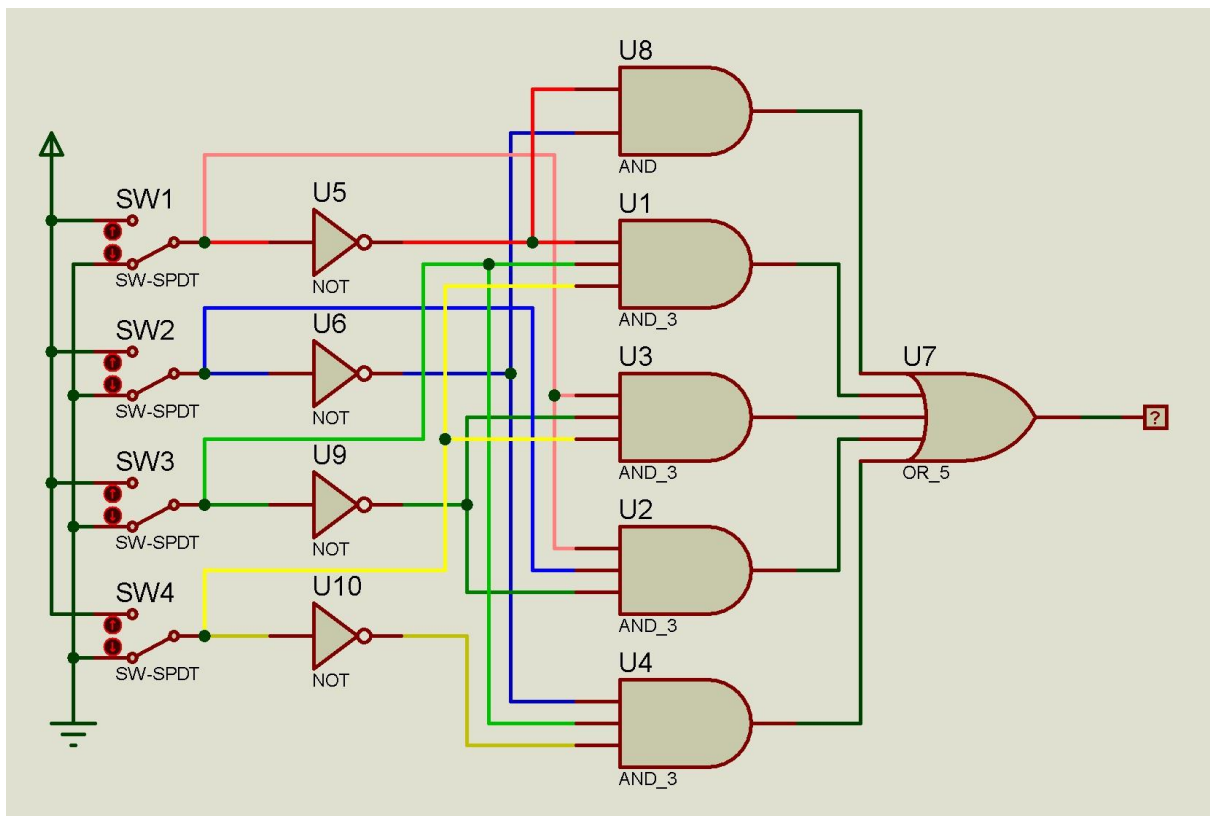
## Percobaan 6

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

Fungsi Boolean sederhana :

$$F = A'B' + A'CD + AC'D + ABC' + B'CD'$$

Gambar :



Apakah kedua kombinasi memberikan hasil yang sama? Ya / Tidak