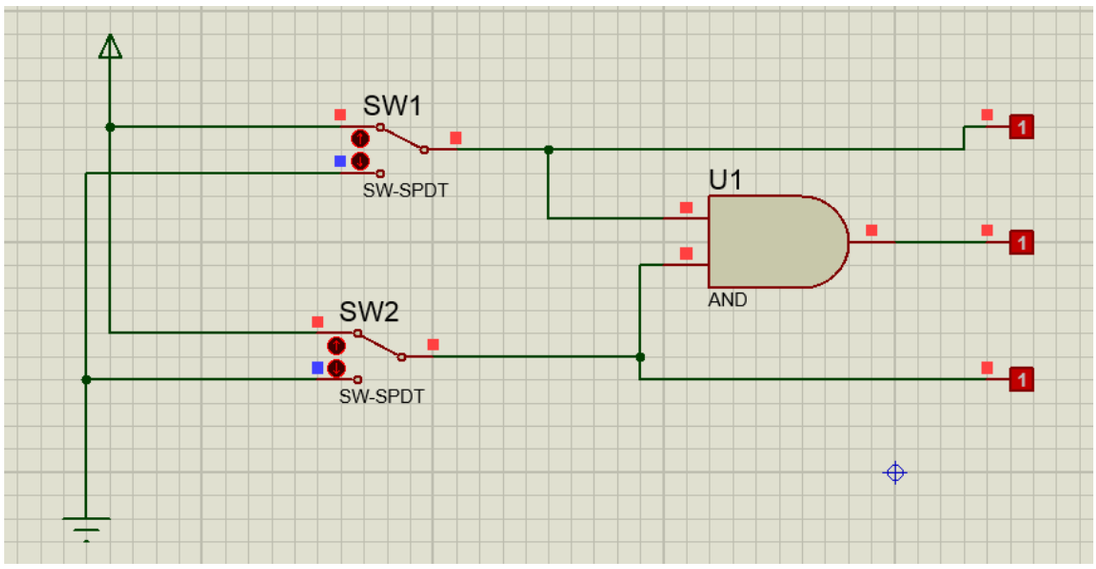
Percobaan 1. Gerbang AND

1. Gambar rangkaian

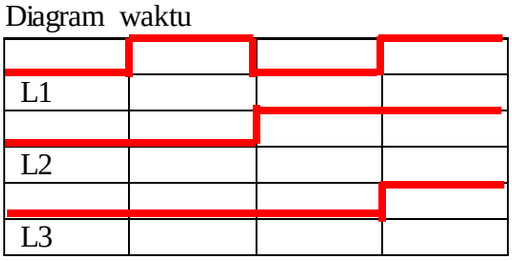


2. Fungsi Boolean
   L3 = L1 L2 atau L3 = L1.L2

3. Tabel kebenaran

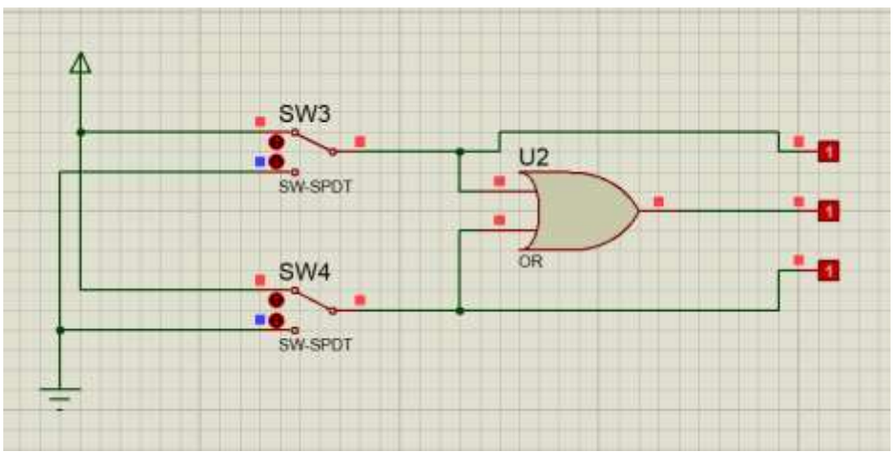
SW1	SW2	L1	L2	L3
0	0	0	0	0
1	0	1	0	0
0	1	0	1	0
1	1	1	1	1

4. Diagram waktu



Percobaan 2. Gerbang OR

1. Gambar rangkaian

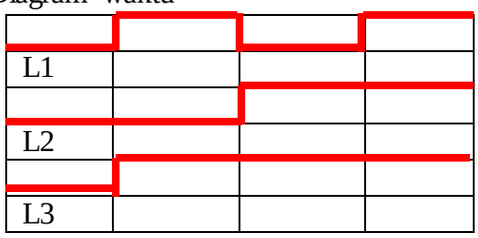


2. Fungsi boolean
   L3 = L1 + L2

3. Tabel kebenaran

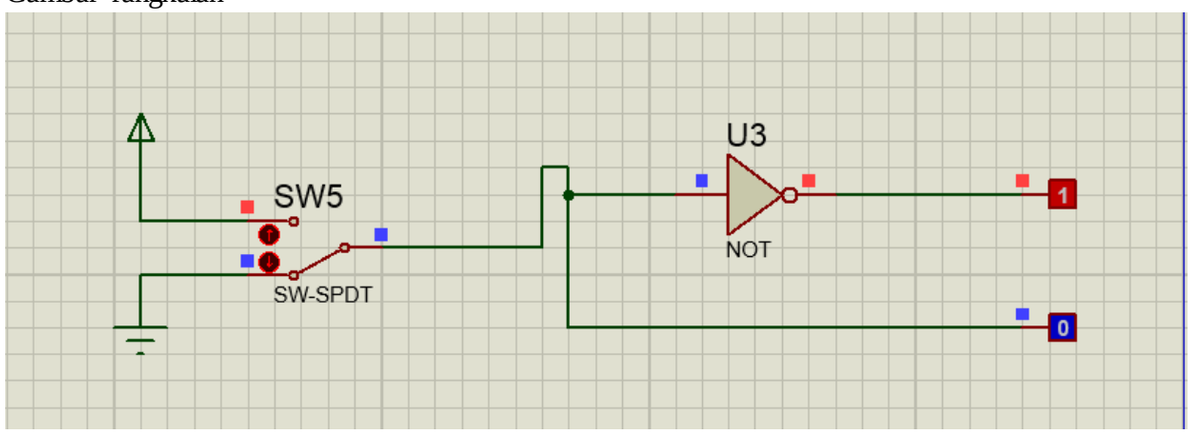
SW1	SW2	L1	L2	L3
0	0	0	0	0
1	0	1	0	1
0	1	0	1	1
1	1	1	1	1

4. Diagram waktu



Percobaan 3. Gerbang NOT

1. Gambar rangkaian

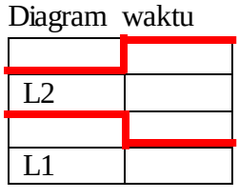


2. Fungsi boolean
   L1 = ~L2

3. Tabel kebenaran

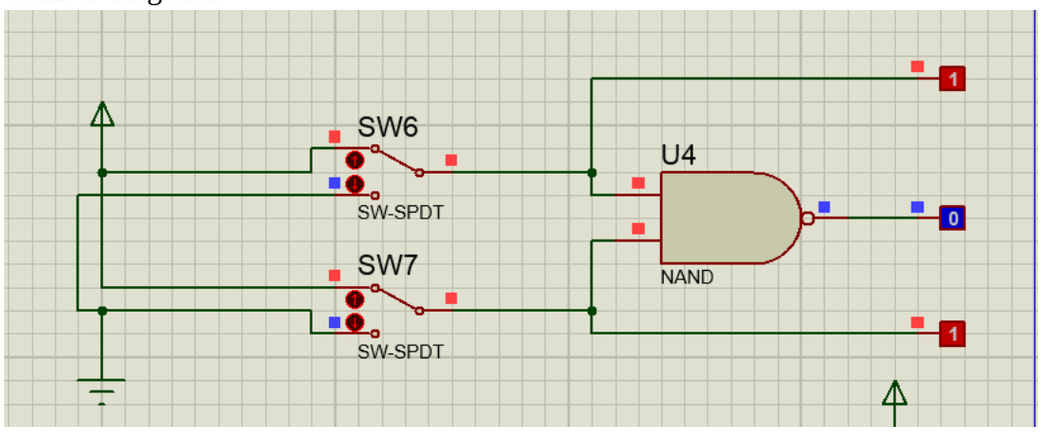
SW1	L2	L1
0	0	1
1	1	0

4. Diagram waktu



Percobaan 4. Gerbang NAND

1. Gambar rangkaian



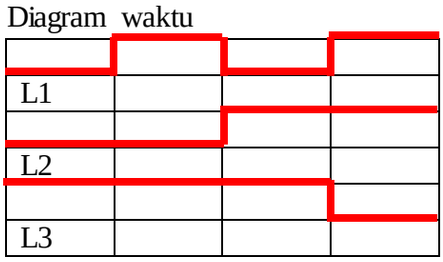
2. Fungsi booean

   $L3 = \overline{L1.L2}$

3. Tabel kebenaran

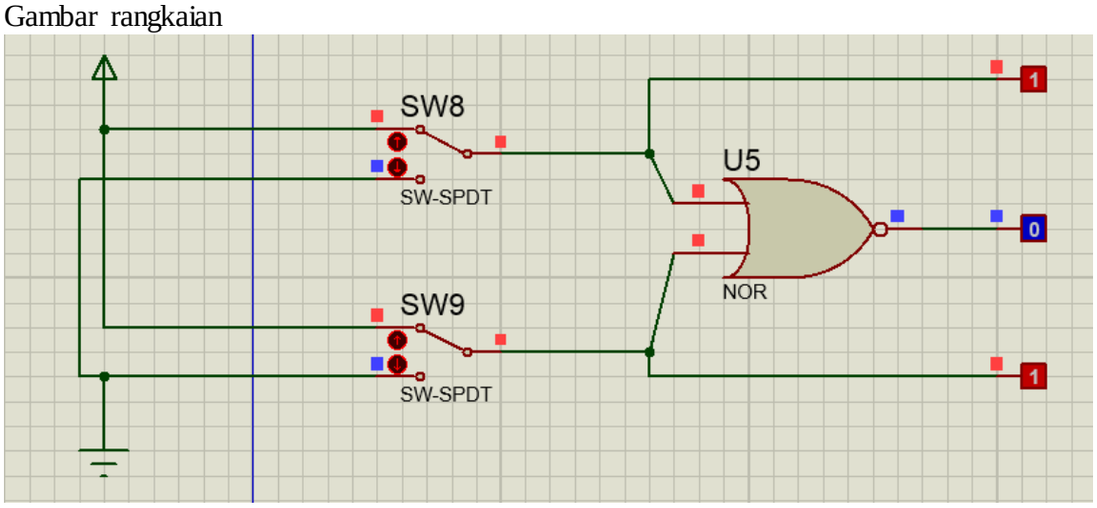
SW1	SW2	L1	L2	L3
0	0	0	0	1
1	0	1	0	1
0	1	0	1	1
1	1	1	1	0

4. Diagram waktu



Percobaan 5. Gerbang NOR

1. Gambar rangkaian



2. Fungsi boolean

   $L3 = \overline{L1 + L2}$

3. Tabel kebenaran

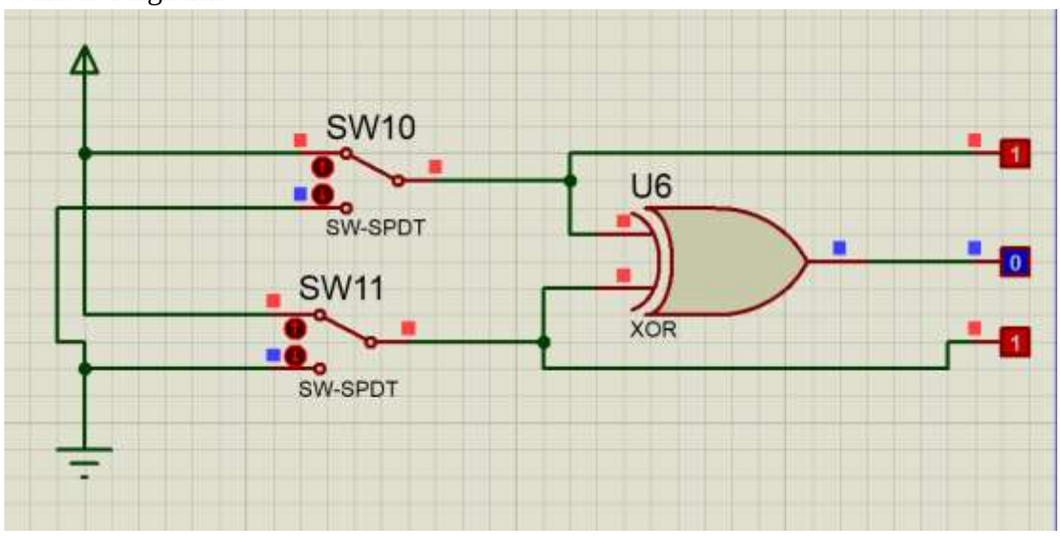
SW1	SW2	L1	L2	L3
0	0	0	0	1
1	0	1	0	0
0	1	0	1	0
1	1	1	1	0

4. Diagram waktu

L1			
L2			
L3			

Percobaan 6. Gerbang XOR

1. Gambar rangkaian



2. Fungsi boolean

   L3 = L1 ⊖ L2

3. Tabel kebenaran

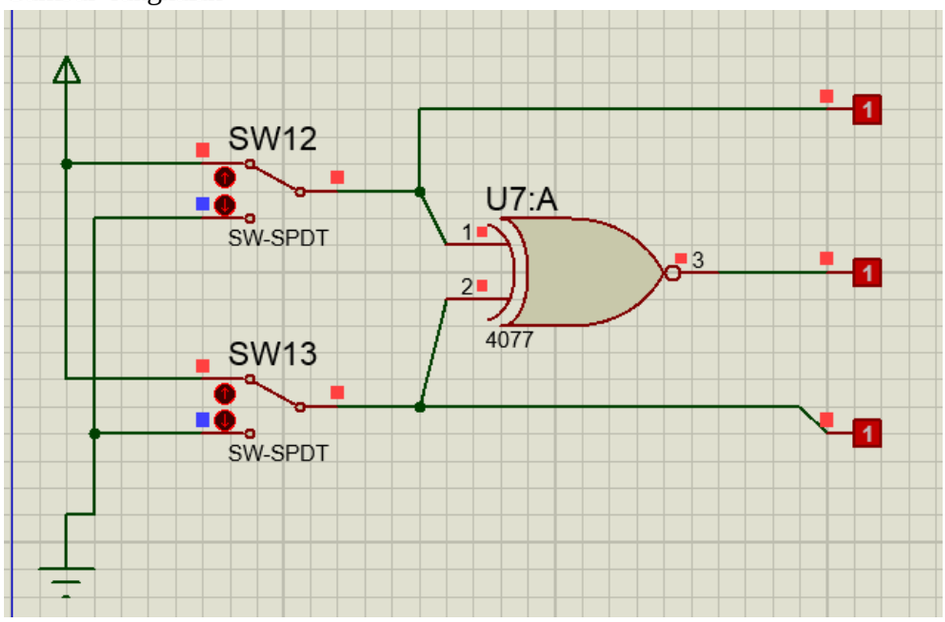
SW1	SW2	L1	L2	L3
0	0	0	0	0
1	0	1	0	1
0	1	0	1	1
1	1	1	1	0

4. Diagram waktu

L1			
L2			
L3			

Percobaan 7. Gerbang XNOR

1. Gambar rangkaian



2. Fungsi boolean

   $L3 = \overline{L1 \odot L2}$

3. Tabel kebenaran

SW1	SW2	L1	L2	L3
0	0	0	0	1
1	0	1	0	0
0	1	0	1	0
1	1	1	1	1

4. Diagram waktu