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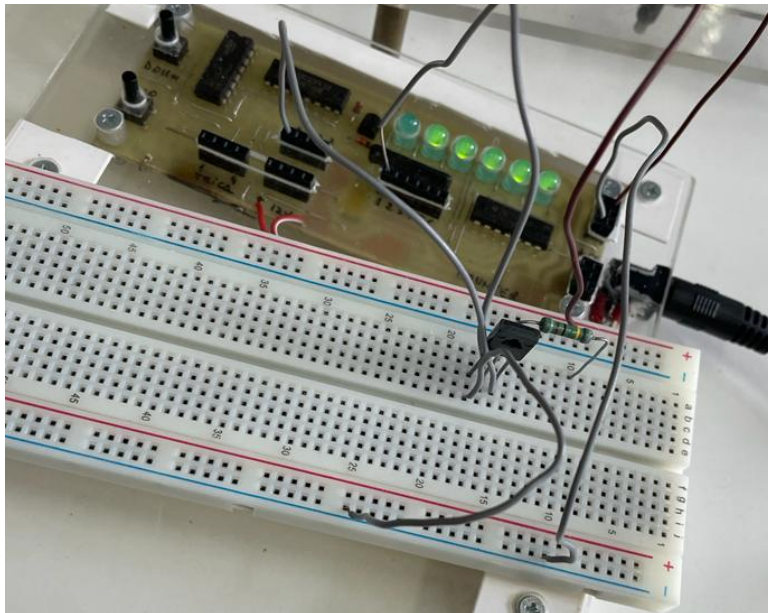
Electronica Digitala
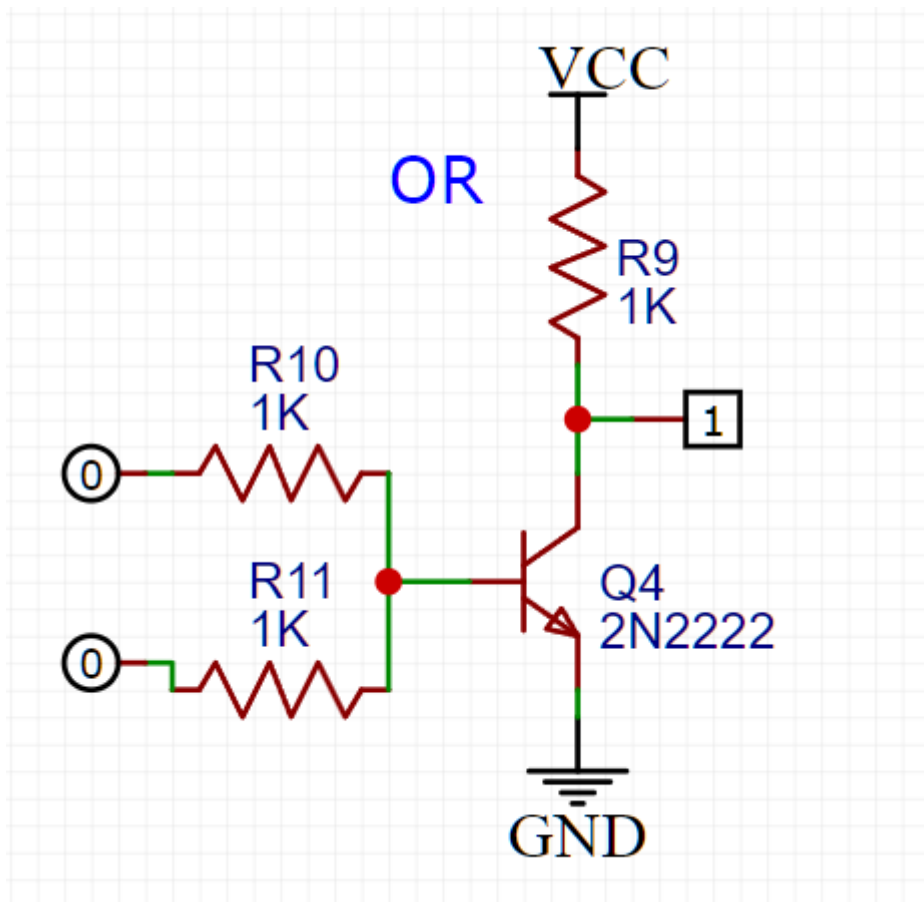Porti Logice

NOT

A	Y
0	1
1	0

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OR

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

VCC

OR

R9
1K

R10
1K

R11
1K

Q4
2N2222

1

GND

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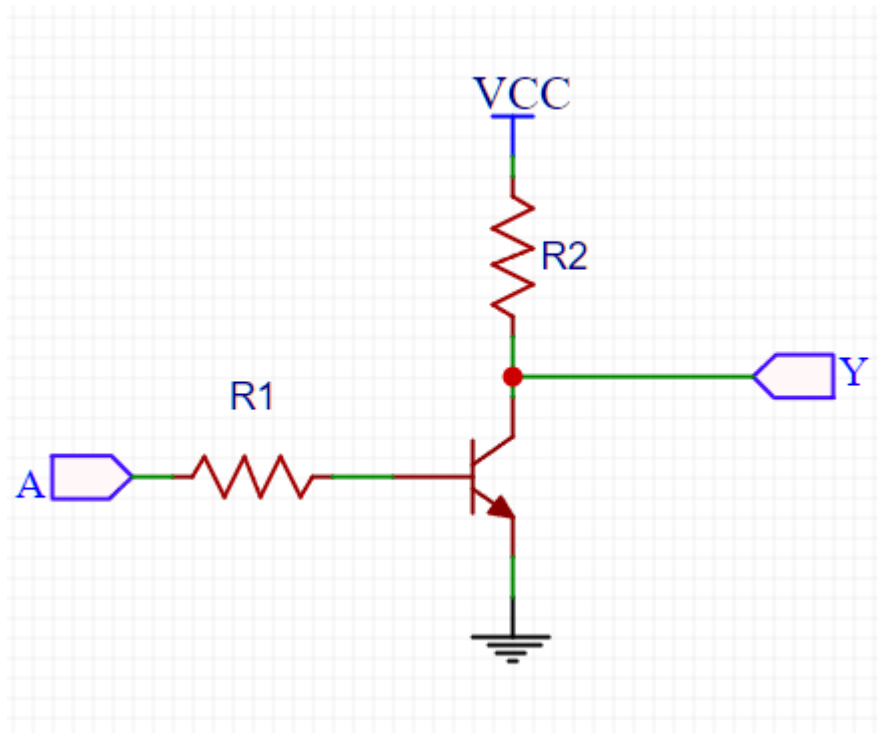
AND

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1
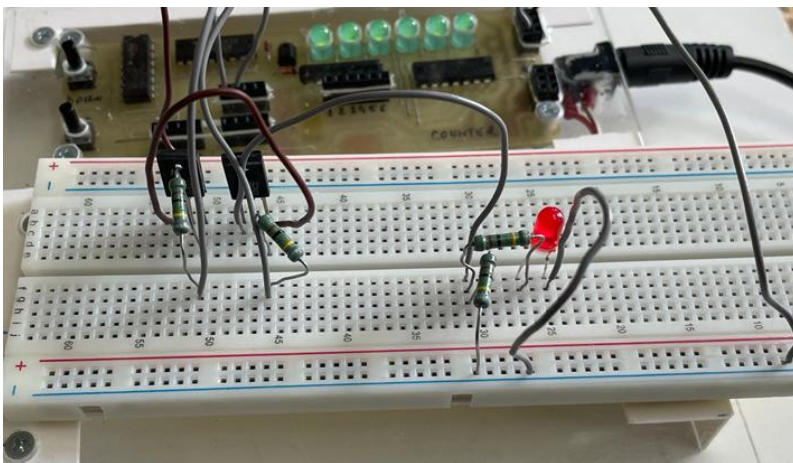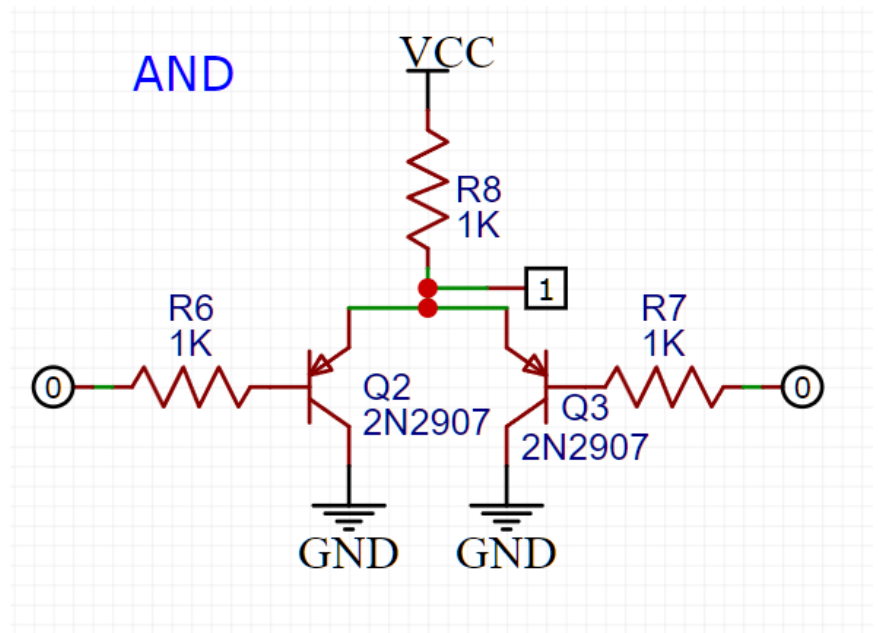
XOR

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

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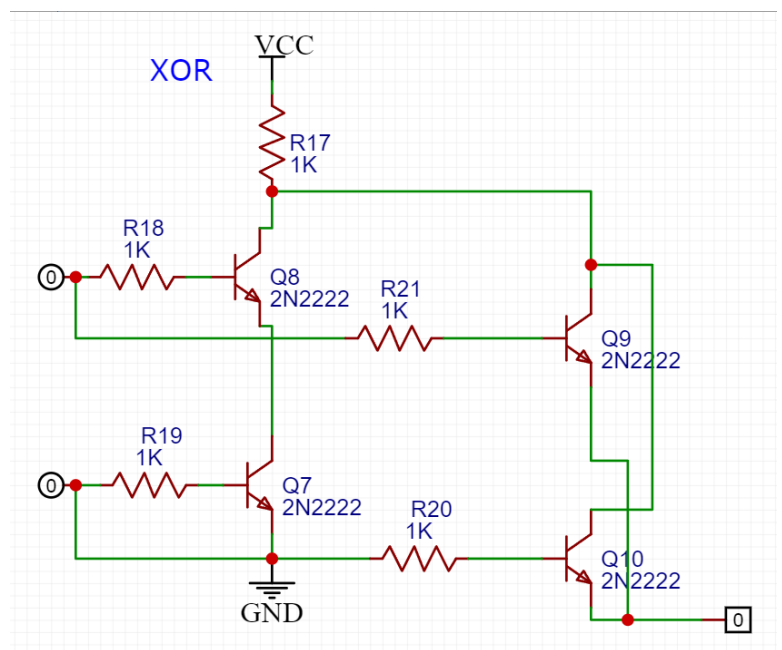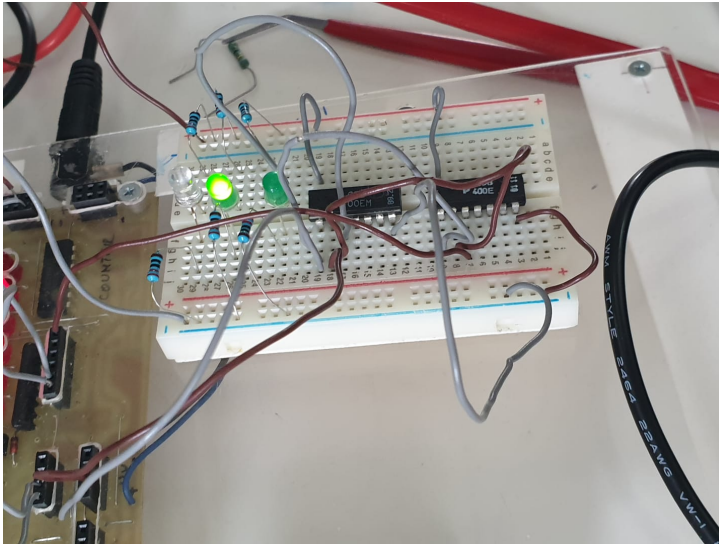
NAND

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

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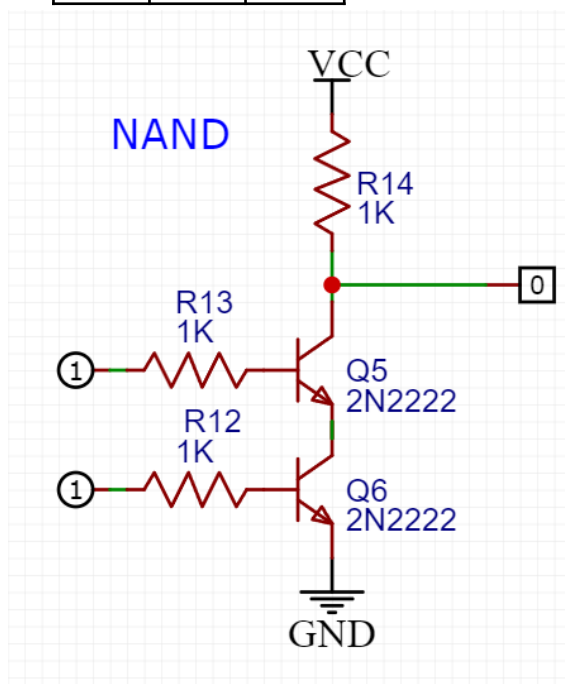
Studiul Diodelor
Studiul LED-urilor

1. 220Ω

LED Albastru	
V	Stare
2.4	foarte slab
2.6	slab
3	normal
4	puternic
5	foarte puternic

LED Galben	
V	Stare
1.6	extrem de slab
1.7	foarte slab
2	slab
2.6	normal
3	puternic
4	puternic
5	foarte puternic

LED verde	
V	Stare
1.7	extrem de slab
1.8	foarte slab
2.4	slab
3.3	slab

4	normal
5	puternic

LED Rosu	
V	Stare
1.6	foarte slab
1.7	slab
1.8	slab
2.6	normal
3.8	puternic
4.4	foarte puternic
6	foarte puternic

LED Alb	
2.4	foarte slab
2.9	slab
3.5	normal
4.5	puternic
5	puternic

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2. 1kΩ

LED Albastru	
V	Stare
2.6	slab
3	normal
4	puternic
5	foarte puternic

LED Galben	
V	Stare
1.6	stins
1.7	extrem de slab
1.9	extrem de slab
2.6	slab
2.9	normal
4.1	puternic
5	puternic

LED Verde	
V	Stare
1.7	stins
1.9	extrem de slab
2.3	slab
3.2	slab
4	normal
5	puternic

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LED Rosu	
V	Stare
1.6	stins
1.7	extrem de slab
1.8	foarte slab
2.6	normal
3.8	puternic
4.4	foarte puternic
5.1	foarte puternic

LED Alb	
V	Stare
2.4	slab
2.8	normal
3.5	puternic
4.5	foarte puternic
5	foarte puternic

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3. 10kΩ

LED Albastru	
V	Stare
2.6	stins
3	foarte slab
4	slab
5	normal

LED Galben	
V	Stare
1.7	stins
1.9	extrem de slab
2.6	extrem de slab
3	foarte slab
4.1	slab
5	normal

LED Verde	
V	Stare
1.7	stins
2.2	extrem de slab
3.4	foarte slab
4	slab
5	normal

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LED Rosu	
V	Stare
1.9	stins
2.6	foarte slab
3.7	normal
4.5	puternic
5.1	puternic

LED Alb	
V	Stare
2.6	stins
2.8	slab
3.4	normal
4.5	puternic
5	foarte puternic