## Organização e Arquitetura de Computadores Prof.ª Joseana Macêdo Fechine

Aluno: Hércules Rodrigues Anselmo Matrícula: 117210908

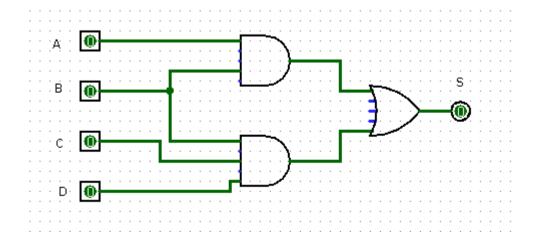
Exercício Prático 1

QUESTÃO 1:

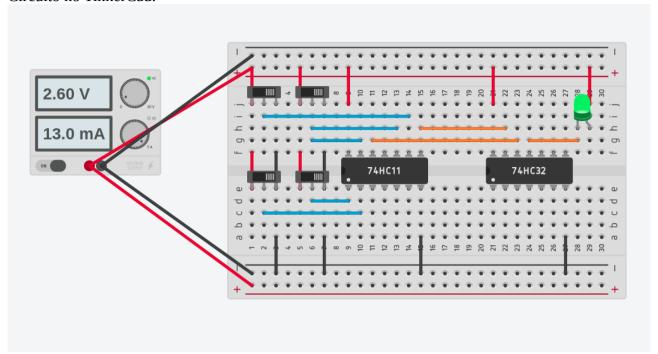
TABELA VERDADE								
A	В	С	D	S				
0	0	0	0	0				
0	0	0	1	0				
0	0	1	0	0				
0	0	1	1	0				
0	1	0	0	0				
0	1	0	1	0				
0	1	1	0	0				
0	1	1	1	1				
1	0	0	0	0				
1	0	0	1	0				
1	0	1	0	0				
1	0	1	1	0				
1	1	0	0	1				
1	1	0	1	1				
1	1	1	0	1				
1	1	1	1	1				

Expressão:	
S = AB + BCD	

Circuito:



#### Circuito no TinkerCad:



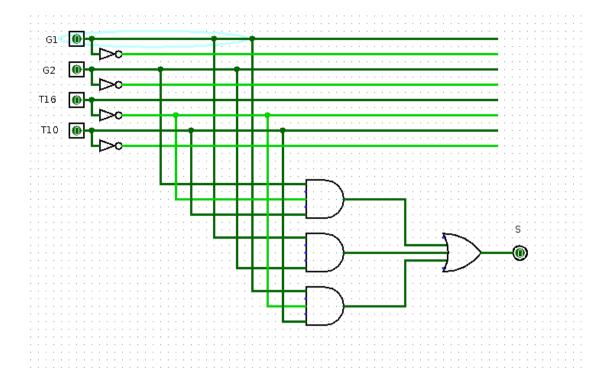
Link: https://www.tinkercad.com/things/8VKPvl57TQO-bodacious-blad/editel

QUESTÃO 2:

TABELA VERDADE								
G1	G2	T16	T10	S(Cofre abre)				
0	0	0	0	0				
0	0	0	1	0				
0	0	1	0	X				
0	0	1	1	0				
0	1	0	0	0				
0	1	0	1	1				
0	1	1	0	X				
0	1	1	1	0				
1	0	0	0	0				
1	0	0	1	1				
1	0	1	0	X				
1	0	1	1	0				
1	1	0	0	1				
1	1	0	1	1				
1	1	1	0	X				
1	1	1	1	1				

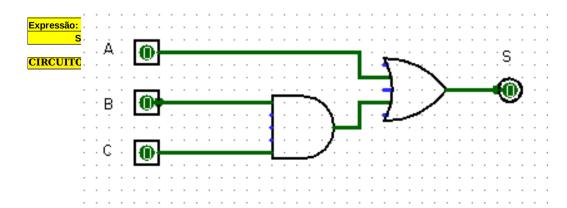
Expressão:	
S = (G2.T16'.T10 + G1.G2 + G1.T16'.T10)	

### **CIRCUITO**:

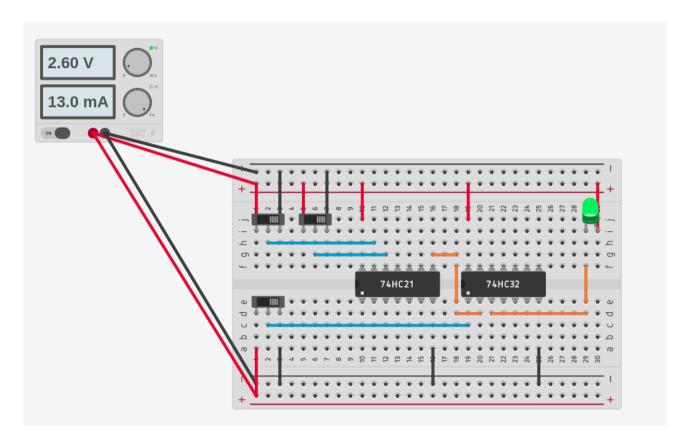


# QUESTÃO 3:

	TABELA VERDADE											
Α	В	С	D	S	a	b	c	d	е	f	g	DISPLAY
0	0	0	0	0	1	1	1	1	1	1	0	0
0	0	0	1	0	0	1	1	0	0	0	0	1
0	0	1	0	0	1	1	0	1	1	0	1	2
0	0	1	1	0	1	1	1	1	0	0	1	3
0	1	0	0	0	0	1	1	0	0	1	1	4
0	1	0	1	0	1	0	1	1	0	1	1	5
0	1	1	0	1	1	0	1	1	1	1	1	6
0	1	1	1	1	1	1	1	0	0	0	0	7
1	0	0	0	1	1	1	1	1	1	1	1	8
1	0	0	1	1	1	1	1	0	0	1	1	9
1	0	1	0	х	х	х	х	х	х	х	х	х
1	0	1	1	х	х	х	х	х	х	х	х	х
1	1	0	0	х	х	х	х	х	х	х	х	х
1	1	0	1	x	х	х	х	х	х	х	х	х
1	1	1	0	x	х	х	х	х	х	х	х	х
1	1	1	1	х	х	х	х	х	х	х	х	х



### Circuito no TinkerCad:



LINK: https://www.tinkercad.com/things/4bWkZqXRPVN-epic-wolt/editel?tenant=circuits