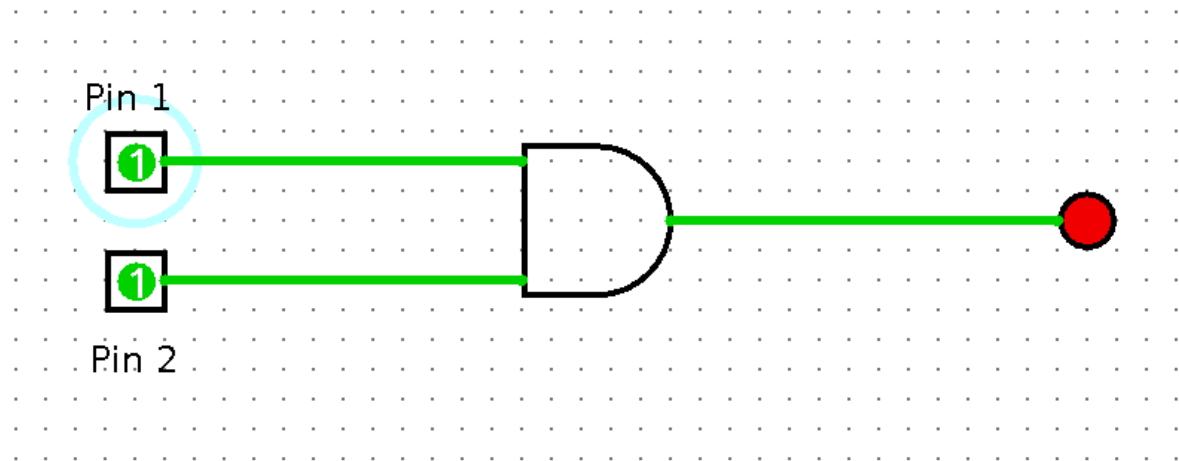


## COS10004 - Computer Systems

Name: Le Nho Bach

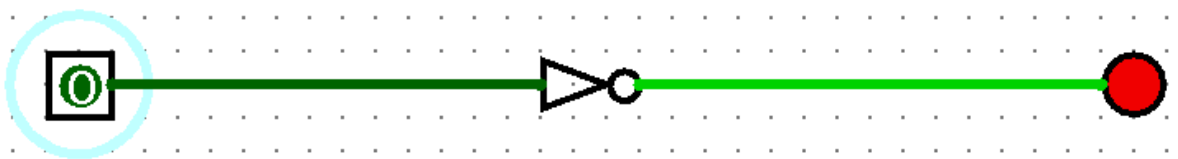
Student ID: 103487884

Circuit 1:



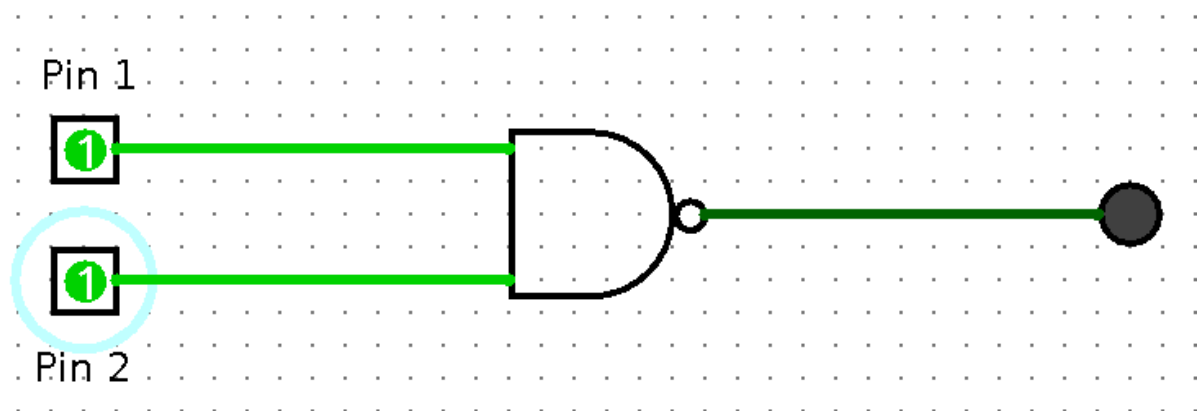
Pin 1	Pin 2	Output
0	0	0
0	1	0
1	0	0
1	1	1

Circuit 2:



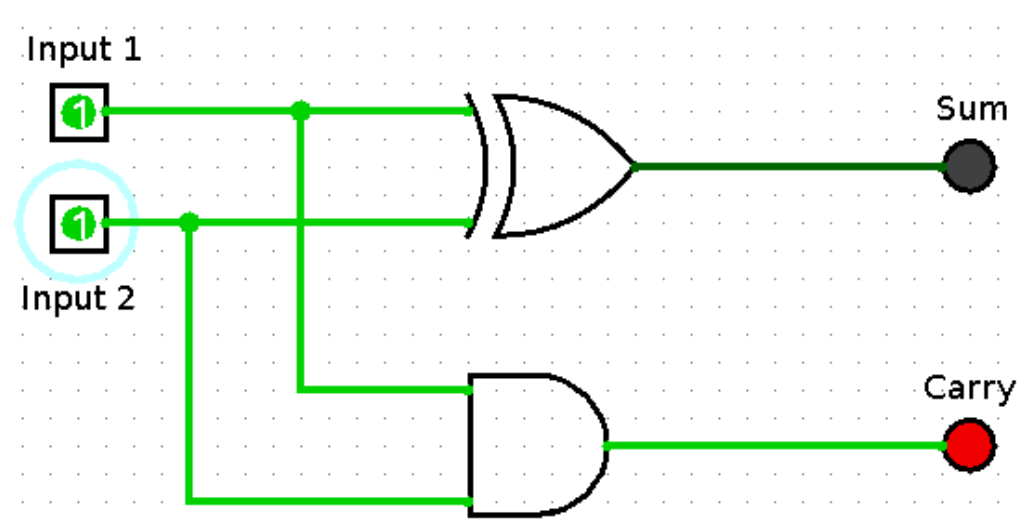
Pin	Output
0	1
1	0

Circuit 3:



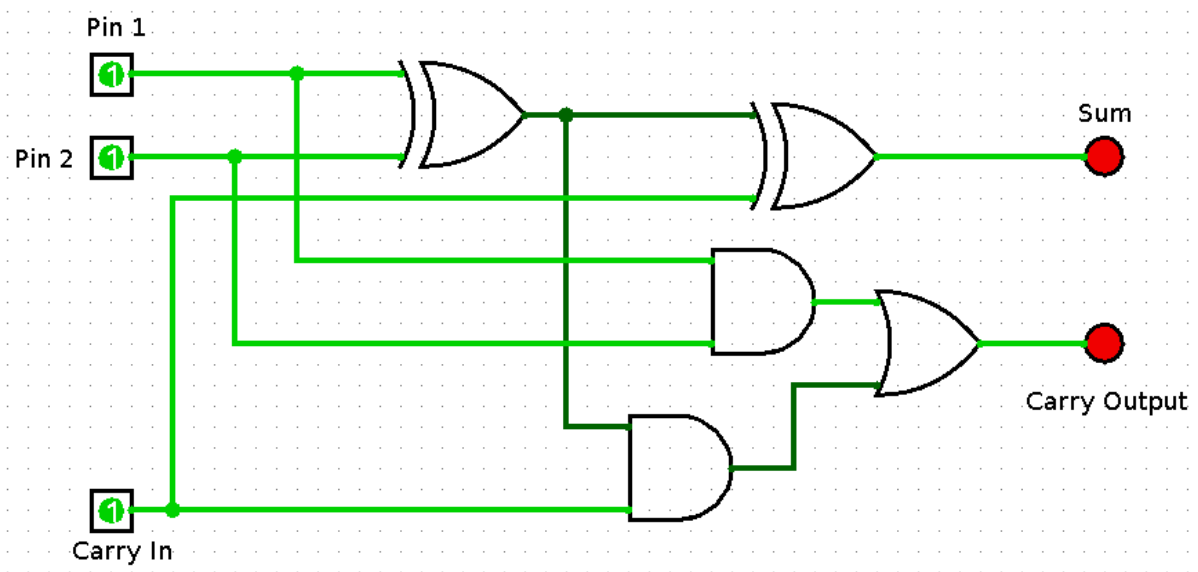
Pin 1	Pin 2	Output
0	0	1
0	1	1
1	0	1
1	1	0

Half-adder:



Input 1	Input 2	Sum	Carry
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1

Full-adder:



Input 1	Input 2	Carry-in	Sum	Carry-out
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1