Logical Gates	Symbol	Truth Table		
AND		A	B	AB
		0	0	0
		0	1	0
		1	0	0
		1	1	1
OR		A	B	A + B
		0	0	0
		0	1	1
		1	0	1
		1	1	1
NOT		A	$\overline{A}$	
		0	1	
		1	0	
NAND		A	B	$\overline{A\,B}$
		0	0	1
		0	1	1
		1	0	1
		1	1	0
NOR		A	B	$\overline{A + B}$
		0	0	1
		0	1	0
		1	0	0
		1	1	0
XOR		A	B	A⊕B
		0	0	0
		0	1	1
		1	0	1
		1	1	0
XNOR		A	B	$\overline{A⊕B}$
		0	0	1
		0	1	0
		1	0	0
		1	1	1