GATE		CIRCUIT REPRESENTATION	TRUTH TABLE	
NOT	The output is 1 when the input is 0 and 0 when the input is 1.		Input 0	Output 1
AND	The output is 1 only when both inputs are 1, otherwise the output is 0.		1 nput 0 0 1 1 1 1	Output 0 0 0 1
OR	The output is 0 only when both inputs are 0, otherwise the output is 1.		1 0 1 1 1	Output 0 1 1
NAND	The output is 0 only when both inputs are 1, otherwise the output is 1.		1 nput 0 0 1 1 1 1	Output 1 1 1
NOR	The output is 1 only when both inputs are 0, otherwise the output is 0.		1 nput 0 0 1 1 1 1	Output 1 0 0
XOR	The output is 1 only when the two inputs have different value, otherwise the output is 0.		1 0 1 1 1	Output 0 1 1 0
XNOR	The output is 1 only when the two inputs have the same value, otherwise the output is 0.		1 0 1 1 1	Output 1 0 1