The NOT Gate

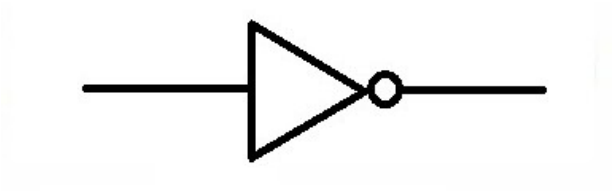
The NOT Gate is also known as the inverter gate. As the name suggests, here the output will be opposite to the input. There will be one input and one output. That is, if the input is 1 (ON), then the output will be 0 (OFF). The NOT gate is symbolized by a line over top of the input ($\bar{A}$). The sign is also known as a 'complement'. For example,

For example, if A is the input, the output will be $\bar{A}$

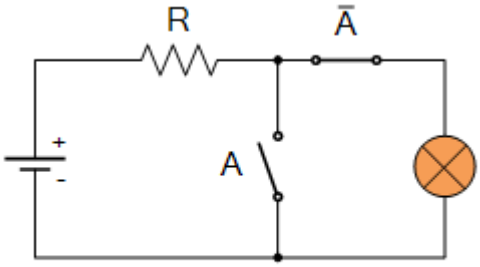
That is,

For A = 1, output is 0

And for A = 0, ouput is 1



A	Out
1	0
0	1



Switch A - Open = "0", Lamp - ON = "1"
Switch A - Closed = "1", Lamp - OFF = "0"