

Physical Computing

Basic logic gates



- AND
- OR
- NOT



AND Gate



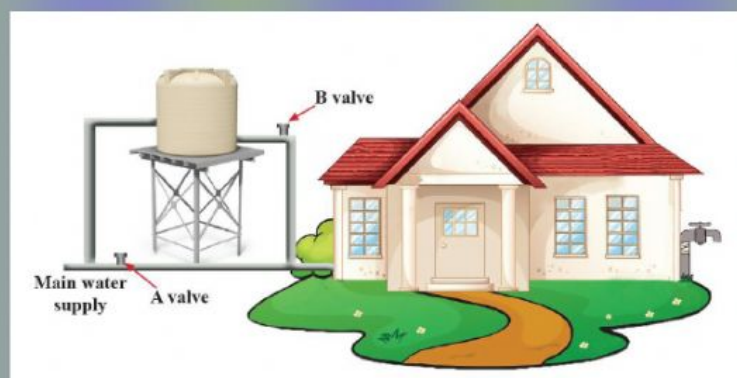
The following table shows whether the tank receives water or not from the main supply based on whether the A and B valves are closed or open.

A valve	B valve	Water supply to tank
Closed	Closed	does not receive water
Closed	Open	does not receive water
Open	Closed	does not receive water
Open	Open	receives water

A valve	B valve	Water supply to tank
0	0	
0	1	
1	0	
1	1	



The standard symbol for AND Gate



A valve	B valve	Water supply to tank
Closed	Closed	does not receive water
Closed	Open	receives water
Open	Closed	receives water
Open	Open	receives water

A valve	B valve	Water supply to tank
0	0	
0	1	
1	0	
1	1	



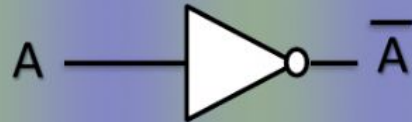
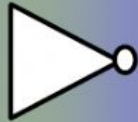
The standard symbol of the OR Gate

NOT Gate



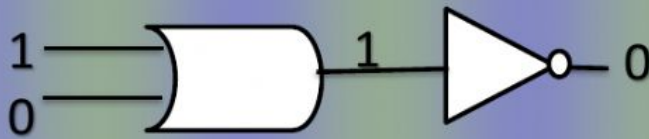
Sun light	Electric lamp
available	OFF
unavailable	ON

Sun light	Electric lamp
1	
0	



Standard Symbol of NOT gate

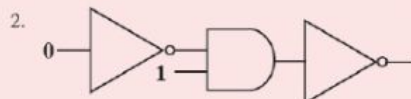
Connecting logic gates in circuits

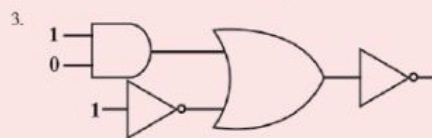


Obtaining the relevant output according to the input given In OR gate, the inputs are added to give the output ($1 + 0 = 1$)

Write down the output corresponding to the inputs given in the following circuits







please watch this video