



$$B = \sim A$$

As to control the speed, look at the following table:

Truth Table

Input		Output
A	B	Y
X	X	Off
0	0	Off
0	1	Clockwise
1	0	Counterclockwise
1	1	Not Valid

- Note: 1- Input A is a common input between the top left and bottom right gate inputs.
 2- Input B is a common input between the top right and bottom left gate inputs.

Now If you want to control the speed, all you have to do is connect your Enable pin to one of the (PWM) pins on the arduino.