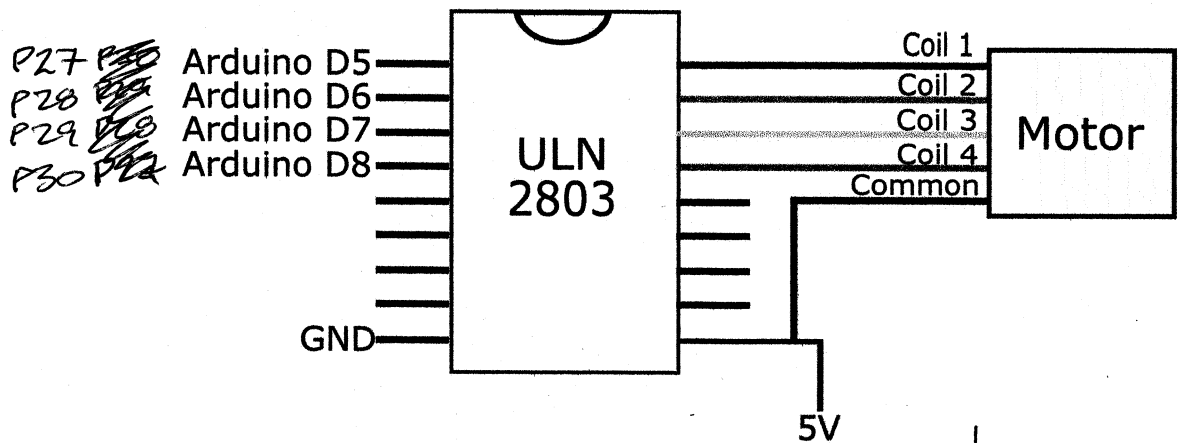## 1.2 ULN2803 IC:
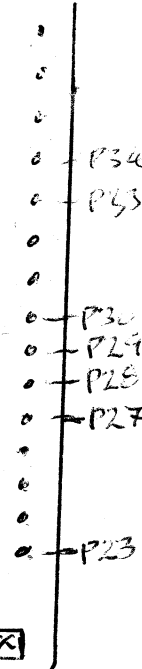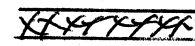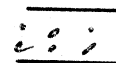
ULN2803 is a high current, high voltage IC, used to drive high power loads upto 500mA/50V such as relays, motors etc.

P27 ~~P30~~ Arduino D5
P28 ~~P29~~ Arduino D6
P29 ~~P28~~ Arduino D7
P30 ~~P27~~ Arduino D8

Coil 1
Coil 2
Coil 3
Coil 4
Common

ULN 2803

Motor

GND

5V

2. Hardware required

S.No.	Item	Quantity
1	Arduino UNO	1
2	Breadboard	1
3	28BYJ-48 Stepper Motor	2
4	ULN2803 IC	7
5	Male to male Jumper	11

E/A 4089
Neo Board

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P33

P30
P29
P28
P27

P23

3. Connection:

~~P26~~		MOTOR	ULN2803
P27	P1.6	Coil 1	1B
P28	P1.5	Coil 2	2B
P29	P1.3	Coil 3	3B
P30	P1.2	Coil 4	4B

MIROBOT STEPPER BOARD:

+ −

3B
4B 2B

1 2 3 4

2803

+

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1B