Connection Diagram for Motor Test

Assuming that you have completed all the installation steps from the files in *Software_Testing* folder also you have made the circuit for the Quad motors as instructed in "Making_board_for_Quad_Motor.pdf"; you will understand the connection scheme for connecting the L298N with the motor here. Now we will be testing whether the installation of software and libraries are proper or not as well as whether you understood the connection scheme accurately.

Please find "Motor_Test.py" along with this file. Copy this file to your RPi3.

Now make following connection between RPi3, Motors, L298N based on tables given below:

Table 1: Connection of L298N motor driver with motors

Motor1 and Motor2	L298N
M1 (Motor1)	OUT1
M2 (Motor1)	OUT2
M1 (Motor2)	OUT3
M2 (Motor2)	OUT4

Table 2: Connection of L298N motor driver with RPi3

L298N motor driver	RPi3
EN-A	Pin 37
IN1	Pin 33
IN2	Pin 35
IN3	Pin 36
IN4	Pin 38
EN-B	Pin 40
+5V	Pin 2

GND	Pin 39

Once all the connections are done, it will look like the image given bellow in figure 1:

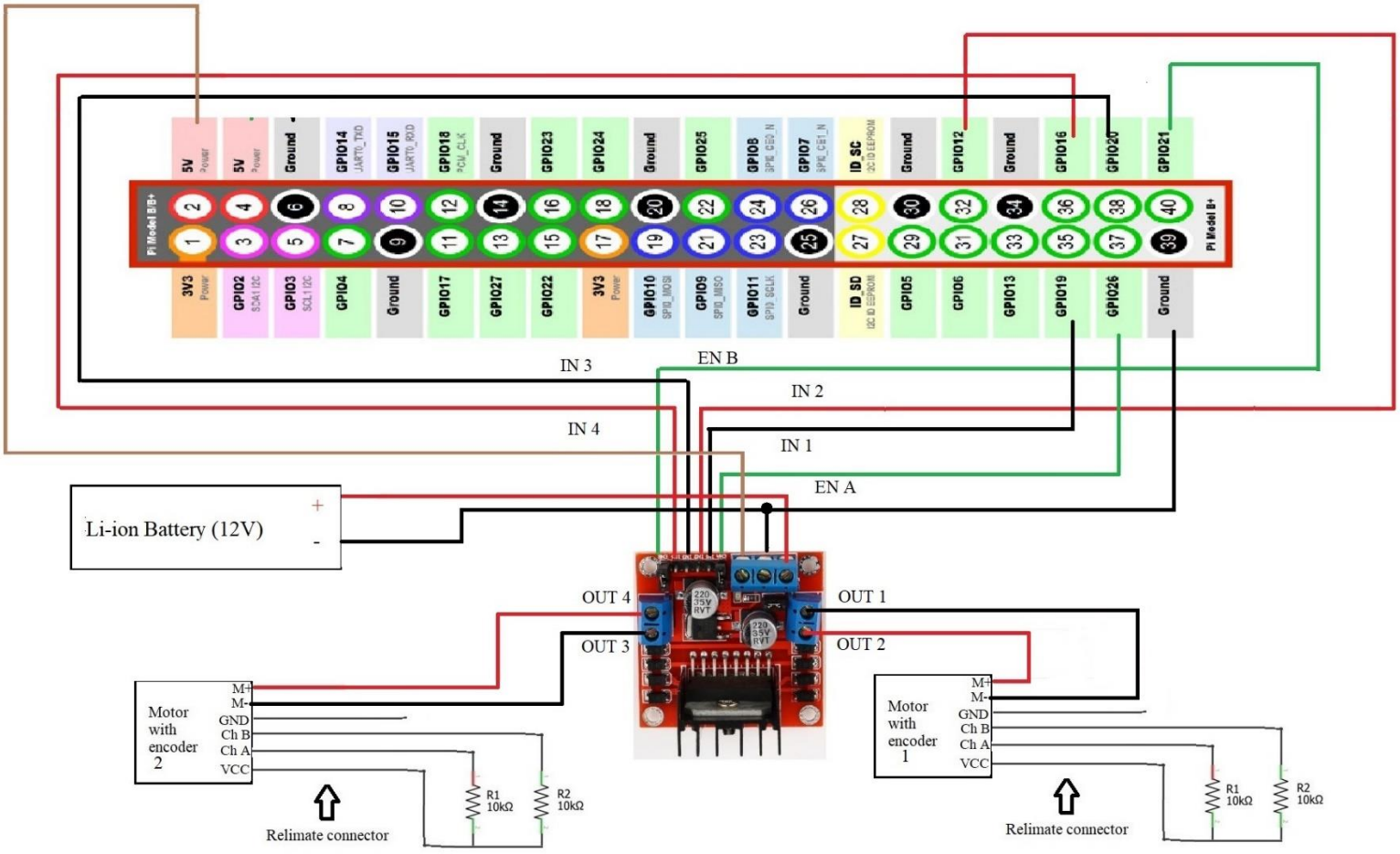

Figure 1: Connecting Rpi3 with Quad encode motors & L298N

After making sure that your connections are proper, run the "Motor_Test.py" file using python in RPi3.

Output:

The motors will run for 20 seconds and stop. This confirms that all the connections are good, and system is ready for further tasks.

ALL THE BEST.