0.1 DC MOTOR CONTROL WITH DIGITAL OUTPUTS

0.1.1 Task:

- 1. Connect the DC motor to Digital Output D7 and D6.
- 2. Write the program and check all the combinations of digital outputs; 00, 01, 10 and 11.
- 3. For each combination of digital outputs mark the state of the motor (fulfill the tbl. 1).R

Table 1: All combinations of the states of motor's connectors.

D7	D6	Motor rotation
0	0	
0	1	
1	0	
1	1	

0.1.2 Questions:

- 2. Try to stop the shaft of the DC motor for a short time and try to remember how difficult it is?
- 3. Why does motors' shaft not spinning if the digital output state are 1 and 1.

dr. David Rihtaršič

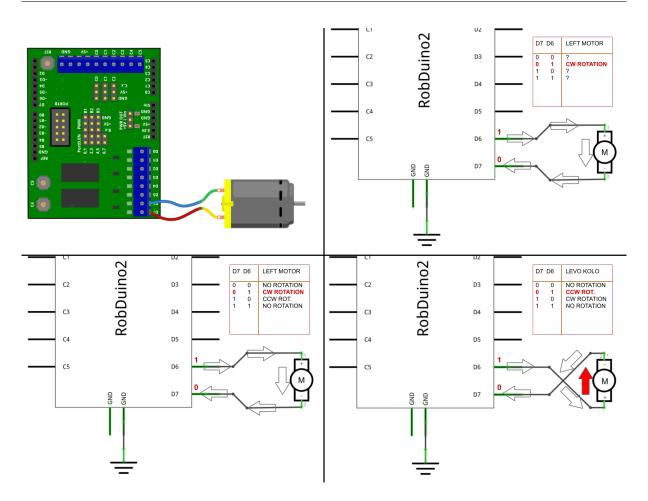


Figure 1: Wireing the DC motor to controller.

0.1.3 Summary

The motor's shaft is spinning according to the direction of the electric current trough the motor. The torque is weak.

0.1.4 Issues

dr. David Rihtaršič