LAB REPORT 2

Pertemuan 1. Motor DC – Driver Motor

Nama : Muhammad Rizqy Dharmawan

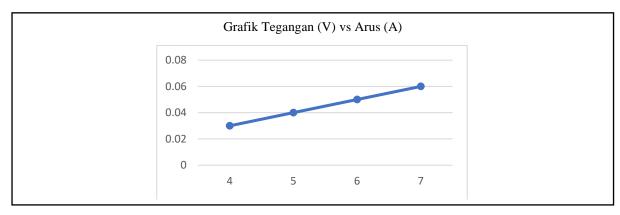
NIM : 20/459179/PA/19840

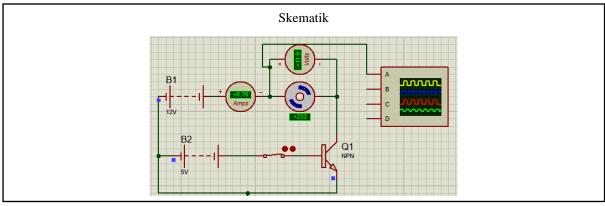
Tanggal : 6 September 2021

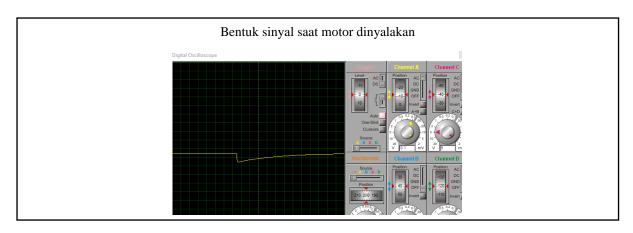
Asisten : Rizki Fajar Kurniawan

I. Transistor dan Motor DC

No	Tegangan (V)	Arus (A)	Arah
1.	3	0.02	clockwise
2.	4	0.03	clockwise
3.	5	0.04	clockwise
4.	6	0.05	clockwise
5.	7	0.06	clockwise
6.	8	0.07	clockwise
7.	9	0.08	clockwise
8.	10	0.09	clockwise
9.	11	0.10	clockwise
10.	12	0.11	clockwise



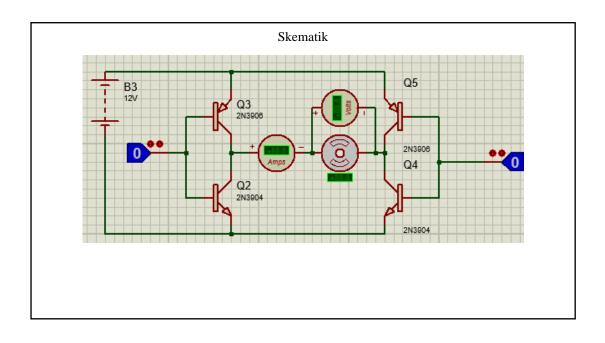




II. Arah Gerak Motor

No	L0	L1	Arah
1.	0	0	Stop
2.	0	1	Clockwise
3.	1	0	Counter clockwise
4.	1	1	Stop

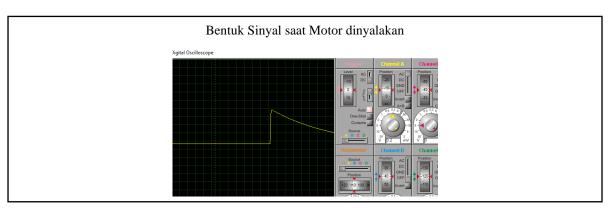
No	Tegangan	Arus (mA)	Arah
	(mV)		
1.	13.1	0.11	Clockwise
2.	10.9	0.18	Clockwise
3.	9.32	0.23	Clockwise
4.	8.15	0.27	Clockwise
5.	7.24	0.30	Clockwise
6.	6.51	0.33	Clockwise
7.	5.92	0.35	Clockwise
8.	5.43	0.36	Clockwise
9.	5.01	0.38	Clockwise
10.	4.65	0.39	Stop

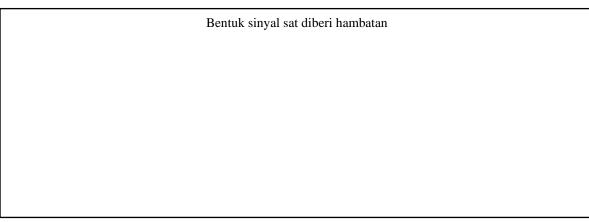


III. Merangkai IC Driver Motor

No	E1	I1	I2	O1	O2	Arah
1.	0	0	0	0	0	Stop
2.	0	0	1	0	0	Stop
3.	0	1	0	0	0	Stop
4.	0	1	1	0	0	Stop
5.	1	0	0	0	0	Stop
6.	1	0	1	0	1	CC
7.	1	1	0	1	0	clockwise
8.	1	1	1	0	0	Stop

No	Tegangan (V)	Arus (A)	Arah
1.	1	0.3	clockwise
2.	2	0.7	clockwise
3.	3	0.11	clockwise
4.	4	0.15	clockwise
5.	5	0.19	clockwise
6.	6	0.23	clockwise
7.	7	0.27	clockwise
8.	8	0.31	clockwise
9.	9	0.34	clockwise
10.	10	0.38	clockwise





IV. Tugas

No	E1	I1	I2	O1	O2	Arah
1.	0	0	0	0	0	Stop
2.	0	0	1	0	0	Stop
3.	0	1	0	0	0	Stop
4.	0	1	1	0	0	Stop
5.	1	0	0	0	0	Stop
6.	1	0	1	0	1	CC
7.	1	1	0	1	0	clockwise
8.	1	1	1	1	1	Stop

V. Pertanyaan

- 1. Apa bedanya menggunakan transistor dan tanpa transistor?
- 2. Bagaimana cara kerja H Bridge mengatur arah gerak motor?
- 3. Bagaimana bentuk sinyal tegangan motor saat terhubung ke driver
- 4. Apa itu enable? Kenapa diperlukan?
- 5. Apa pengaruh penggunaan 1 motor dan 2 motor pada driver 1293D?