#### LAB REPORT 2

### Pertemuan 1. Motor DC – Driver Motor

Nama : Linda Tri Nurjannah

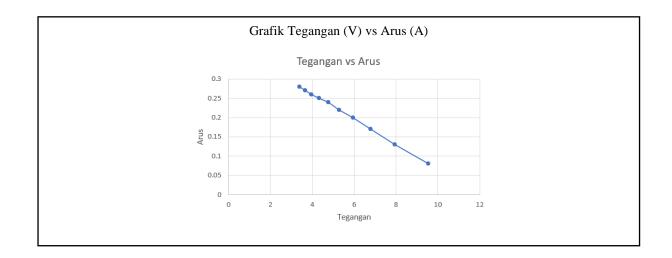
NIM : 20/462086/PA/20058

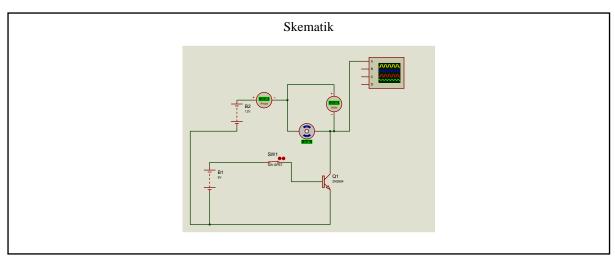
Tanggal : 6 September 2021

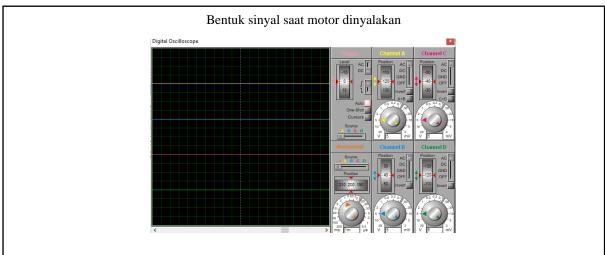
Asisten : Rizki Fajar Kurniawan

### I. Transistor dan Motor DC

No	Tegangan (V)	Arus (A)	Arah	Load
1.	9.55	0.08	CW	10%
2.	7.94	0.13	CCW	20%
3.	6.80	0.17	CCW	30%
4.	5.96	0.20	CCW	40%
5.	5.29	0.22	CW	50%
6.	4.76	0.24	CW	60%
7.	4.33	0.25	CW	70%
8.	3.97	0.26	CW	80%
9.	3.66	0.27	CW	90%
10.	3.40	0.28	_	100%



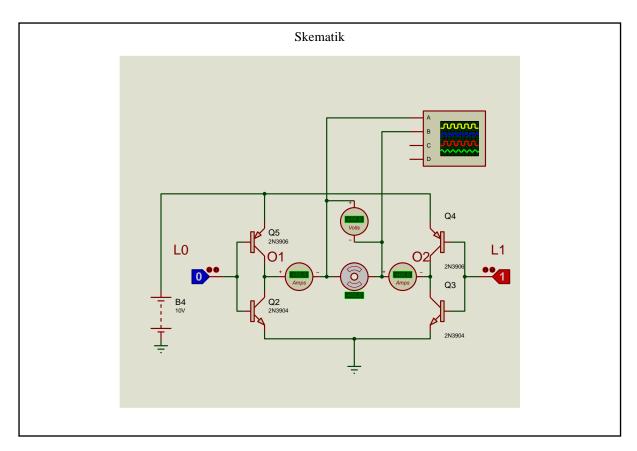




## II. Arah Gerak Motor

No	L0	L1	Arah
1.	0	0	diam
2.	0	1	CW
3.	1	0	CCW
4.	1	1	diam

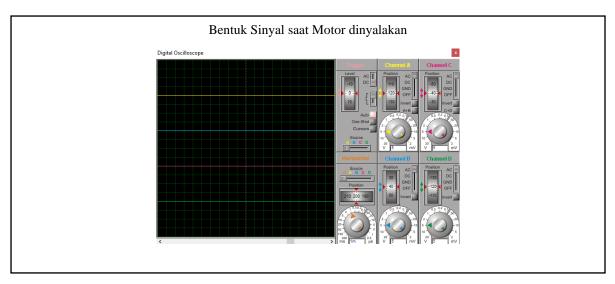
No	Tegangan (V)	Arus (A)	Arah
1.	0.11	-3.3	CW
2.	1.8	-4.08	CW
3.	-0.3	-1.83	CCW
4.	8.2	-6.7	CW
5.	-0.5	-1.33	CCW
6.	3.5	-4.7	CW
7.	5.2	-5.23	CW
8.	7.6	-6.3	CW
9.	0.4	0	CCW
10.	10.2	-8.1	CW

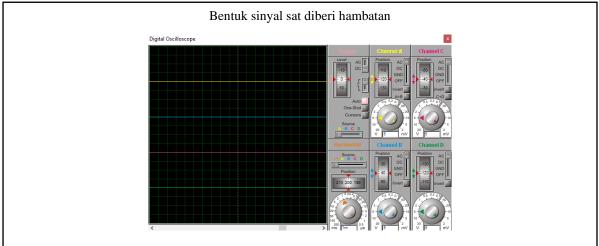


# III. Merangkai IC Driver Motor

No	E1	I1	I2	01	O2	Arah
1.	0	0	0	0	0	0
2.	0	0	1	0	0	0
3.	0	1	0	0	0	0
4.	0	1	1	0	0	0
5.	1	0	0	0	0	0
6.	1	0	1	0	1	CCW
7.	1	1	0	0	1	CW
8.	1	1	1	1	1	CW

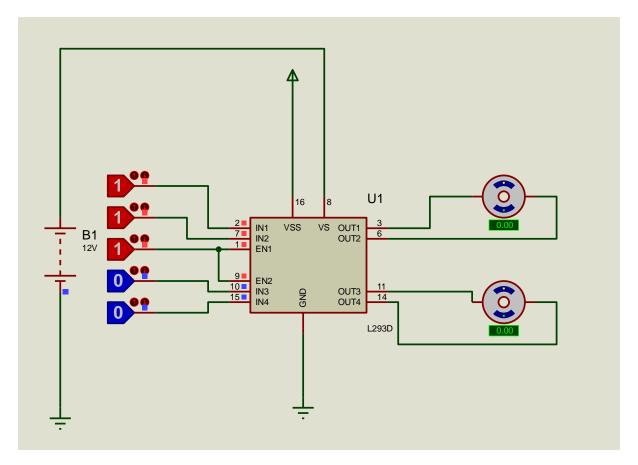
No	Tegangan (V)	Arus (A)	Arah
1.	16.5	0.67	CW
2.	18.3	0.75	CW
3.	14.7	0.61	CW
4.	10.9	0.49	CW
5.	22.8	0.98	CW
6.	12.7	0.55	CW
7.	15.5	0.68	CW
8.	13.8	0.58	CW
9.	16.5	0.67	CW
10.	18.3	0.75	CW





# IV. Tugas

No	E1	I1	I2	O1	O2	Arah
1.	0	0	0	0	0	-
2.	0	0	1	0	0	-
3.	0	1	0	0	0	-
4.	0	1	1	0	0	-
5.	1	0	0	0	0	-
6.	1	0	1	-460	0	CW
7.	1	1	0	+460	0	CCW
8.	1	1	1	0	0	-



### 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?