# ELEC 1100 Laboratory 4: Summary Sheet

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID:

Lab Session (Deadline): LA1 (Wed 14:50) / LA2 (Thu 11:50) / LA3 (Mon 16:20)

**Notes**: (1) Show demo to your TA to have an attendance record; (2) Individually submit your completed Summary Sheet on Canvas before the deadline.

**Tinkercad Simulation Links (for online lab)**

|  |  |
| --- | --- |
| **Simulation 1:** |  |
| **Simulation 2:** |  |
| **Simulation 3:** |  |

**Experimental Results and Analysis**

Q1: Write down the voltage Vout. \_\_\_\_\_\_\_\_\_\_\_\_ (Use your own student ID to give Vin)

Q2: Complete the table in the summary sheet.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vin (V) | 0 | 0.2 | 0.4 | 0.6 | 0.8 | 1 | 1.2 | 1.4 | 1.6 |
| Vout (V) |  |  |  |  |  |  |  |  |  |
| Vin (V) | 1.8 | 2 | 2.2 | 2.4 | 2.6 | 2.8 | 3 | 3.2 | 3.4 |
| Vout (V) |  |  |  |  |  |  |  |  |  |
| Vin (V) | 3.6 | 3.8 | 4 | 4.2 | 4.4 | 4.6 | 4.8 | 5 |  |
| Vout (V) |  |  |  |  |  |  |  |  |  |

Q3: What are the voltage values of Va, Vb, Vc, Vd (to let the motor turn in one direction)?

Q4: What are the voltage values of Va, Vb, Vc, Vd (to let the motor turn in opposite direction)?