MATERIALS AND EQUIPMENT

The following materials and equipments were used to complete the experiment:

1. Arduino Uno Board

2. DC Motor

3. L7806CV Regulator

4. L293D Motor Driver IC

5. Connecting Wires

6. Breadboard

7. Arduino IDE (Software)

PROCEDURE

The following steps were followed to complete the experiment and control a DC motor using Arduno:

1. Connect pins 7, 5 and 4 of the Arduino with pins 7, 1 and 2 of the L293D IC respectively.

2. Connect the two pins of the motor with pin 3 and 6 of the L293D IC.

3. Connect pin 2 of LM7806 Regulator and pin 4 and 6 of L293D IC to the ground (GND), and pin 16 of the L293D IC to the 3.3V of Arduino.

4. Write the code for initiating the buzzer, upload the code to the Arduino board using the "Upload" button in the IDE.

5. After uploading, disconnect the Arduino from PC/Laptop and connect it to power through 12V Adapter