MATERIALS AND EQUIPMENT

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

- 1. Arduino Uno Board
- 2. LED
- 3. Resistor
- 4. Light Dependent Resistor
- 5. Connecting Wires
- 6. Breadboard
- 7. Arduino IDE (Software)

PROCEDURE

The following steps were followed to complete the experiment and toggle the LED using the Arduino board and the button:

- 1. Connect the Arduino Uno board to the computer using a USB cable
- 2. Insert the LED and a resistor serially into the breadboard and connect one leg from the resistor to pin 9 on the Arduino. Connect the other leg of the LED to the ground (GND).
- 3. Insert the LDR on the breadboard and connect one point to ground (GND) and connect the other end to the A0 pin of the Arduino.
- 4. Connect another resistor to the 5V of the Arduino and another end to the common connecting ground of A0 of the Arduino.
- 5. Write the code for inspecting the LED using the LDR, upload the code to the Arduino board using the "Upload" button in the IDE and observe the LED by using a flashlight on the LDR.