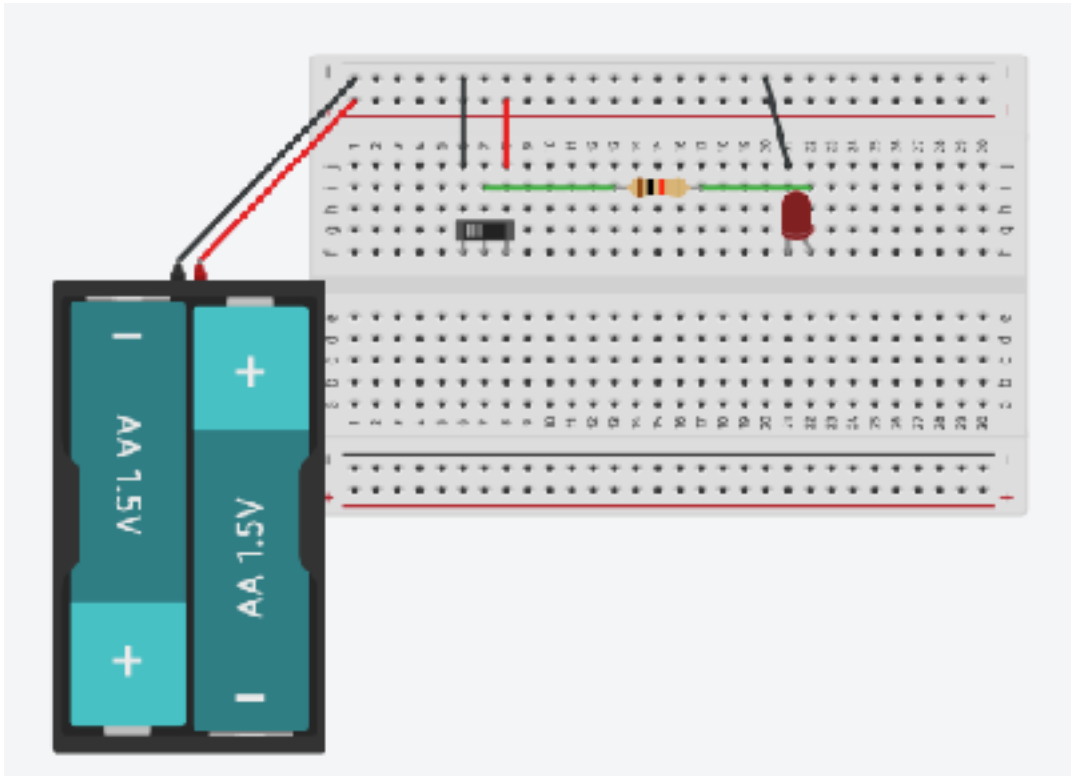# 19AIE103 – Introduction to Drones

Lab Worksheet – 1

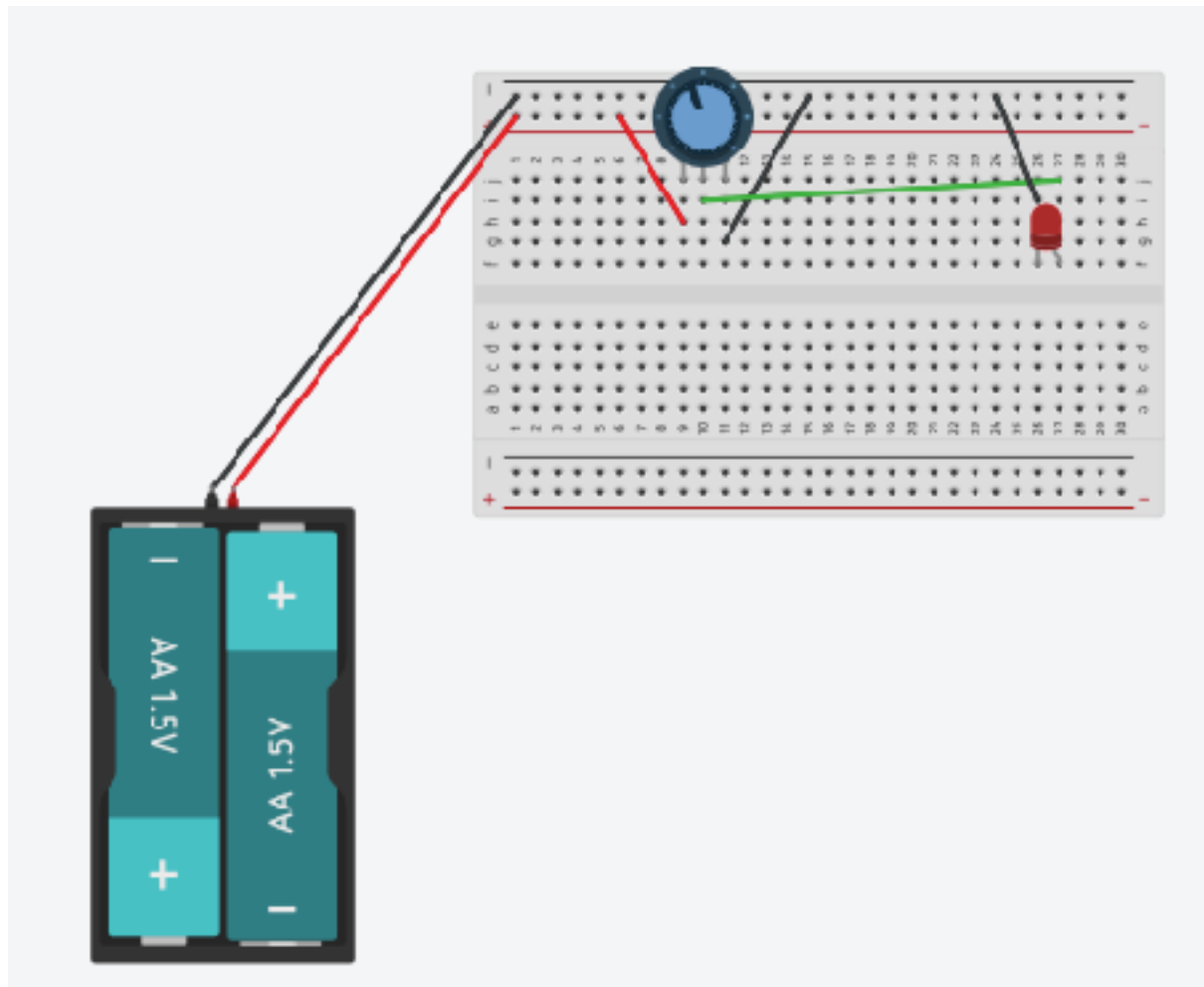## Introduction to Tinkercad - Electronics Module

1. Design a circuit to control a LED with on/off switch

Points to learn

- Connecting different components using wires

- Using a breadboard

- Customizing the circuit like, naming the components, changing wire colors etc.

- Working of an on/off switch

2. Design a circuit to control the brightness of LED using potentiometer

Points to learn

- Working principal of potentiometer

- Role of current in light brightness control

Assignment

1. Design a circuit to implement two way switch connection to control an LED. The solution file should adhere to the following instructions.

    a. Use the given format

    b. Paste a clearly visible snap of your circuit with your register number in the format "BL.EN.U4AIE20XXX"

    c. Snapshot of all the possible output cases with your file name clearly visible.