HAND CLAP SWITCH

Introduction:

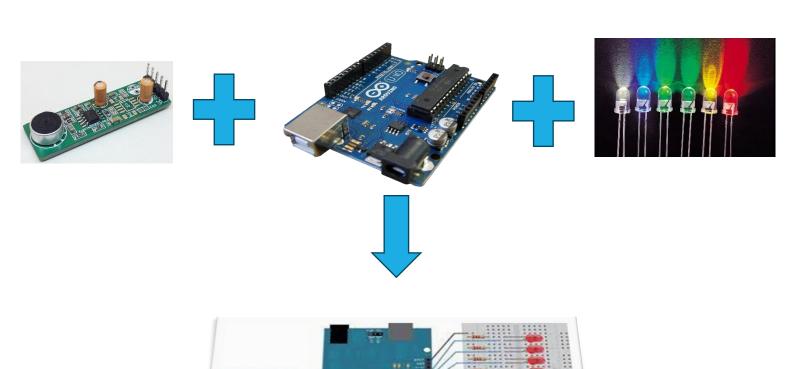
The project aims to create clap-activated LED lights using an Arduino Uno, a sound sensor, and LED lights. The system detects a clap sound through the sound sensor and triggers the LED lights to turn on and off accordingly.

Components:

- 1. Arduino Uno
- 2. Sound Sensor
- 3. LED Lights
- 4. Jumper Wires
- 5. Breadboard

Wiring Connection:

- Connect sound sensor VCC to Arduino 5V.
- Connect sound sensor GND to Arduino GND.
- Connect sound sensor OUT to Arduino digital pin (e.g., D2).
- Connect LED positive leg to Arduino digital pin (e.g., D13).
- Connect LED negative leg to Arduino GND.



Arduino code

sketch_jan5a | Arduino IDE 2.2.1

File Edit Sketch Tools Help

```
Select Board
sketch jan5a.ino
        const_int_soundSensorPin = 2; // Sound sensor OUT pin
        const Unsaved – sketch_jan5a.ino
                                        // LED pin
   2
   3
   4
        void setup() {
          pinMode(soundSensorPin, INPUT);
   5
          pinMode(ledPin, OUTPUT);
   6
   7
   8
   9
        void loop() {
          int soundValue = digitalRead(soundSensorPin);
  10
  11
          if (soundValue == HIGH) {
  12
            digitalWrite(ledPin, HIGH);
  13
            delay(500);
  14
            digitalWrite(ledPin, LOW);
  15
  16
  17
        }
  18
```

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