CLAP DETECTOR

```
#define Sensor 8

#define RELAY_PIN 7


int clap = 0;

long detection_range_start = 0;

long detection_range = 0;

boolean status_lights = false;

void setup() {

  pinMode(Sensor, INPUT);

  pinMode(13,OUTPUT);

  pinMode(RELAY_PIN, OUTPUT);

  digitalWrite(RELAY_PIN, HIGH);

}

void loop() {

int status_sensor = digitalRead(Sensor);

if (status_sensor == 0)

{

if (clap == 0)

{

detection_range_start = detection_range = millis();

clap++;

}

else if (clap > 0 && millis()-detection_range >= 50)

{

detection_range = millis();

clap++;

}

}

if (millis()-detection_range_start >= 400)

{
```

```
if (clap == 2)
{
if (!status_lights)
{
status_lights = true;
digitalWrite(13, HIGH);
digitalWrite(RELAY_PIN, LOW);
}
else if (status_lights)
{
status_lights = false;
digitalWrite(13, LOW);
digitalWrite(RELAY_PIN, HIGH);
}
}
clap = 0;
}
}
```