

PROJECT DEVELOPMENT PHASE

SPRINT 2: BUZZER

Date	05 November 2022
Team ID	PNT2022TMID30241
Project Name	IoT Based Smart Crop Protection System for Agriculture

WOKWI SAVE SHARE pir-adafruit.ino Docs

```

1  /*
2  |  PIR sensor tester
3  |  */
4  // LED is considered as the camera in this project.
5  // It will activated once the movement is detected.
6  int ledPin = 13;
7  int inputPin = 2;
8  int pirState = LOW;
9  int val = 0;
10 int buzzerPin = 12;
11 void setup() {
12   pinMode(ledPin, OUTPUT);
13   pinMode(buzzerPin, OUTPUT);
14   pinMode(inputPin, INPUT);
15   Serial.begin(9600);
16 }
17 void loop() {
18   val = digitalRead(inputPin);
19   if (val == HIGH) {
20     digitalWrite(ledPin, HIGH);
21     if (pirState == LOW) {
22       // we have just turned on
23       Serial.println("Motion detected!");
24       delay(1000);
25       Serial.println("Camera activated!");
26       delay(2000);
27       Serial.println("Pictures taken!");
28       delay(1000);
29       Serial.println("Buzzer activated!");
30       tone(buzzerPin, 62);

```

Simulation

00:10.961 78%

PIR Motion Sensor
Simulate motion

Motion detected!
Camera activated!
Pictures taken!

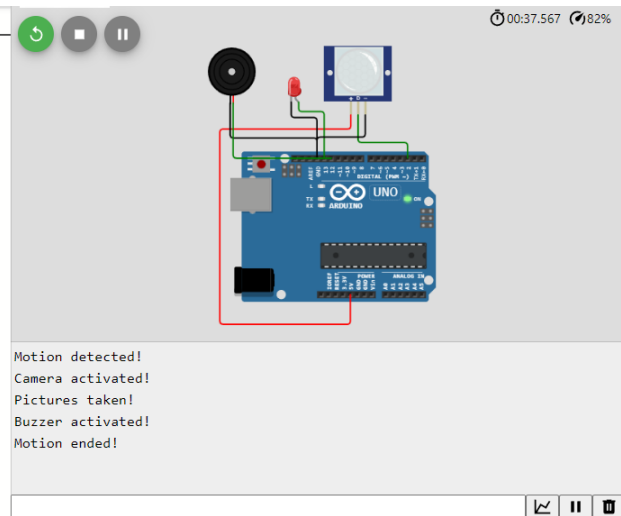
00:10.827 71%

Motion detected!
Camera activated!
Pictures taken!
Buzzer activated!

```

17 void loop() {
18   val = digitalRead(inputPin);
19   if (val == HIGH) {
20     digitalWrite(ledPin, HIGH);
21     if (pirState == LOW) {
22       // we have just turned on
23       Serial.println("Motion detected!");
24       delay(1000);
25       Serial.println("Camera activated!");
26       delay(2000);
27       Serial.println("Pictures taken!");
28       delay(1000);
29       Serial.println("Buzzer activated!");
30       tone(buzzerPin, 62);
31       delay(8000);
32       noTone(buzzerPin);
33       delay(1000);
34       pirState = HIGH;
35     }
36   } else {
37     digitalWrite(ledPin, LOW);
38     if (pirState == HIGH) {
39       // we have just turned off
40       Serial.println("Motion ended!");
41       // We only want to print on the output change, not state
42       pirState = LOW;
43     }
44   }
45 }

```



CODE:

```

/*
  PIR sensor tester
*/
// LED is considered as the camera in this project.
//It will activated once the movement is detected.
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void loop() {
  val = digitalRead(inputPin);
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    if (pirState == LOW) {
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      Serial.println("Motion detected!");
      delay(1000);
      Serial.println("Camera activated!");
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      tone(buzzerPin, 62);
      delay(8000);
    }
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}

```

```
    noTone(buzzerPin);
    delay(1000);
    pirState = HIGH;
}
} else {
    digitalWrite(ledPin, LOW);
    if (pirState == HIGH) {
        // we have just turned of
        Serial.println("Motion ended!");
        // We only want to print on the output change, not state
        pirState = LOW;
    }
}
}
```

WOKWI LINK: <https://wokwi.com/projects/347573917988160084>