

PROJECT DEVELOPMENT PHASE

SPRINT 2

Date	05 November 2022
Team ID	PNT2022TMID17444
Project Name	IoT Based Smart Crop Protection System for Agriculture

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```
1 /*
2  * PIR sensor tester
3  */
4 // LED is considered as the camera in this project.
5 // It will be 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, 620);
31     }
32   }
33 }
```

Simulation

00:10.961 78%

PIR Motion Sensor
Simulate motion

Motion detected!
Camera activated!
Pictures taken!

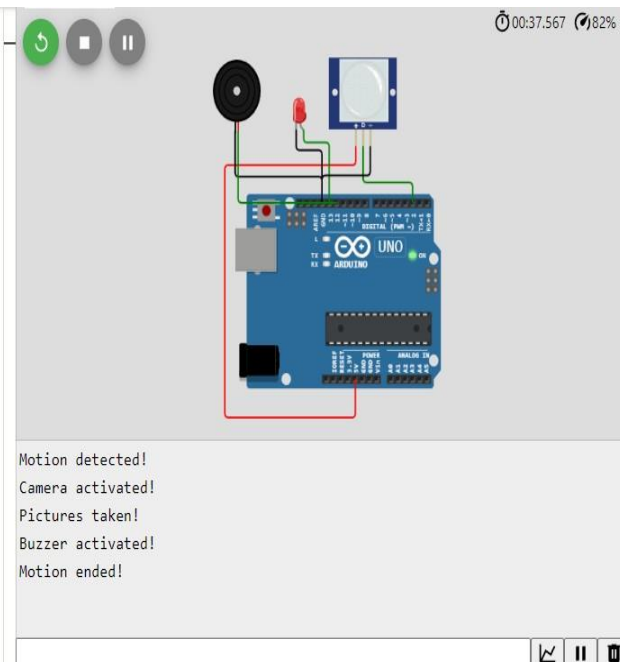
00:10.827 71%

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 of
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
*/
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  pinMode(inputPin, INPUT);
  Serial.begin(9600);
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  val = digitalRead(inputPin);
  if (val == HIGH) {
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```

```
if (pirState == LOW) {  
  // we have just turned on  
  Serial.println("Motion detected!");  
  delay(1000);  
  Serial.println("Camera activated!");  
  delay(2000);  
  Serial.println("Pictures taken!");  
  delay(1000);  
  Serial.println("Buzzer activated!");  
  tone(buzzerPin, 62);  
  delay(8000);  
  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  
    statepirState = LOW;  
  }  
}  
}
```

WOKWI LINK:

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

