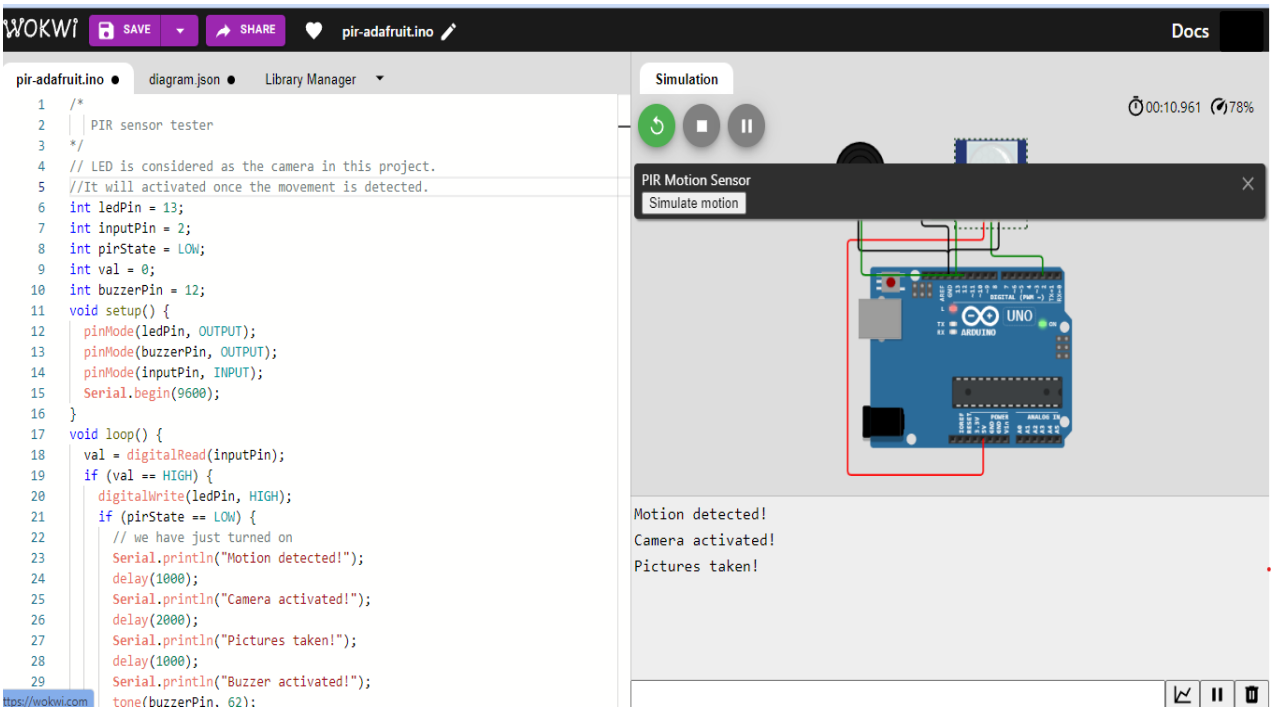
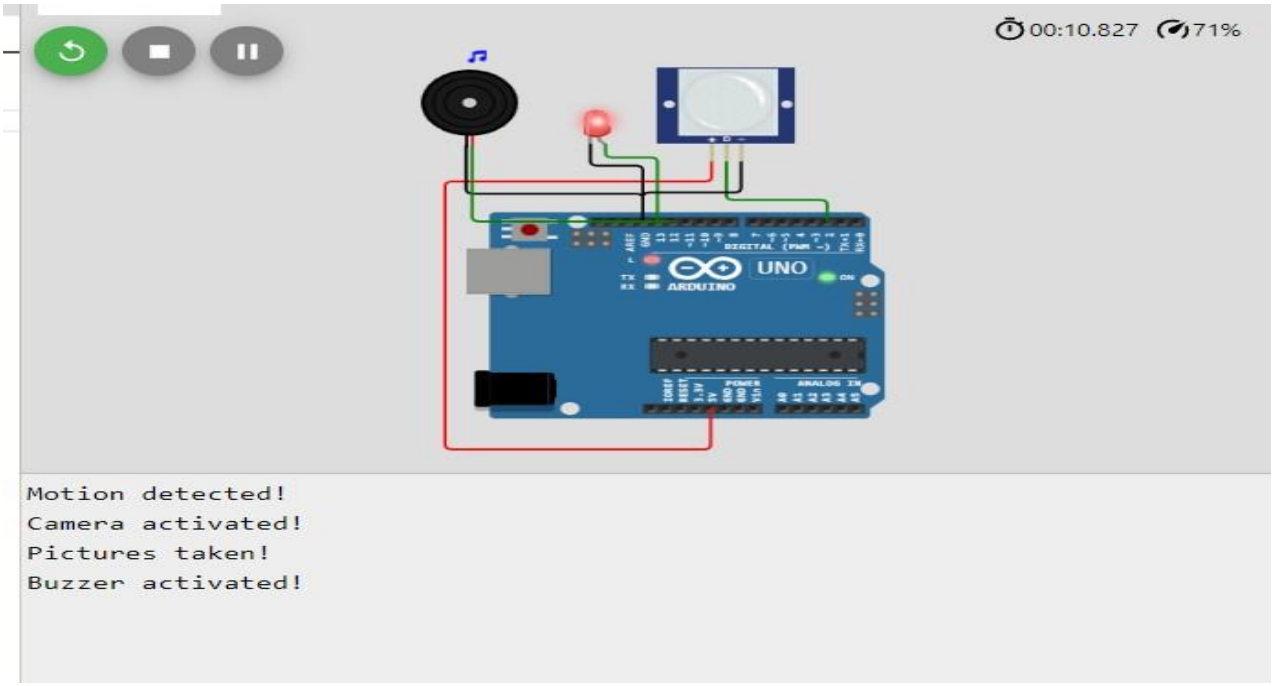
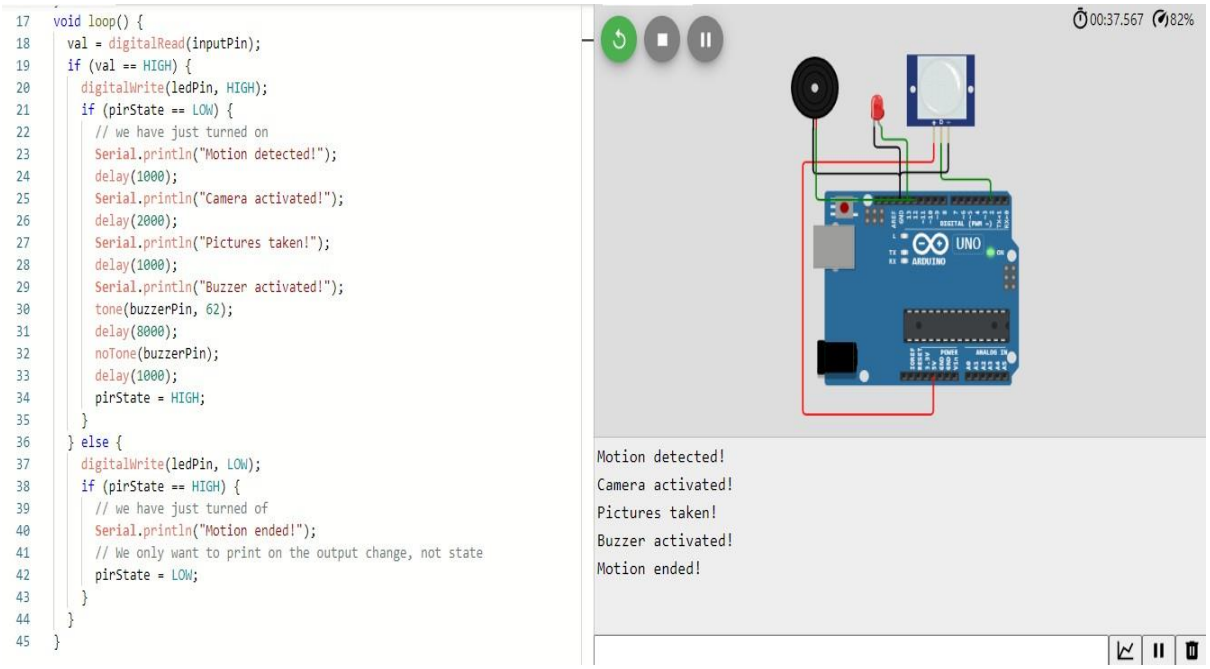
PROJECT DEVELOPMENT PHASE

SPRINT 2

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







CODE:

```
/*
    PIR sensor tester
*/
// LED is considered as the camera in this project.
//It will activated once the movement is detected.
int ledPin = 13;
int inputPin = 2;
int pirState = LOW;
int val = 0;
int buzzerPin = 12;
void setup() {
  pinMode(ledPin, OUTPUT);
  pinMode(buzzerPin, OUTPUT);
  pinMode(inputPin, INPUT);
  Serial.begin(9600);
}
void loop() {
  val = digitalRead(inputPin);
  if (val == HIGH) {
    digitalWrite(ledPin, HIGH);
```

```
    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