

# Sprint 3

Date	17 November 2022
Team ID	PNT2022TMID43116
Project Name	SmartFarmer- IOT Enabled Smart Farming Application

```
#define echoPin 12
#define trigPin 13
#define led1 2
#define ORG "ciox0b"//IBM ORGANITION ID
#define DEVICE_TYPE "43113deviceid"//Device type
mentioned in ibm watson IOT Platform
#define DEVICE_ID "b11m3edevic"//Device ID
mentioned in ibm watson IOT Platform
#define TOKEN "jT5zeckaBwxehIiyZ_" //Token
String data3;
float h, t;
#include <WiFi.h>

long duration;
int distance;

void setup()
{
  pinMode (trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  pinMode(led1, OUTPUT);
  Serial.begin(115200);
}
```

```

Serial.begin(115200);
Serial.print("Connecting to WiFi");
WiFi.begin("Wokwi-GUEST", "", 6);
while (WiFi.status() != WL_CONNECTED) {
    delay(100);
    Serial.print(".");
}
Serial.println(" Connected!");
}
}

void loop()
{
    digitalWrite(trigPin, LOW);
    delayMicroseconds(2);
    digitalWrite(trigPin, HIGH);
    delayMicroseconds(10);
    digitalWrite(trigPin, LOW);
    duration=pulseIn(echoPin, HIGH);
    distance=duration*0.034/2;
    Serial.println("duration:"+String(distance)+ "cm");
    delay(100); // TODO: Build something amazing!

    if (distance >=50)
        digitalWrite(led1, HIGH);
    else
        digitalWrite(led1, HIGH);
}

```

# Wokwi Connection

WOKWI SAVE SHARE sketch.ino Docs

sketch.ino diagram.json Library Manager

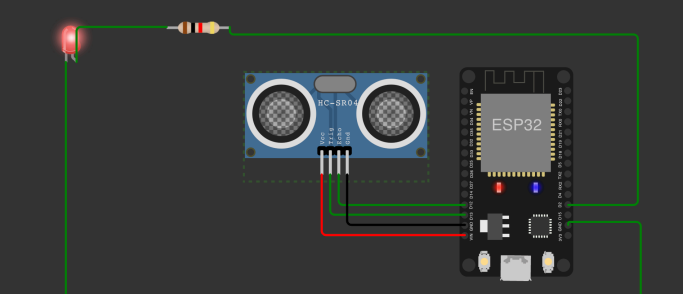
```
1 #define echoPin 12
2 #define trigPin 13
3 #define led1 2
4 #define ORG "ciox8b"/IBM ORGANIZATION ID
5 #define DEVICE_TYPE "43113deviceid"/Device type mentioned in ibm watson IOT Platform
6 #define DEVICE_ID "b11n3device"/Device ID mentioned in ibm watson IOT Platform
7 #define TOKEN "jT5zeckaBweH1iy2_" //Token
8 String data3;
9 float h, t;
10 #include <WiFi.h>
11
12 long duration;
13 int distance;
14
15 void setup()
16 {
17   pinMode(trigPin, OUTPUT);
18   pinMode(echoPin, INPUT);
19   pinMode(led1, OUTPUT);
20   Serial.begin(115200);
21   {
22     Serial.begin(115200);
23     Serial.print("Connecting to WiFi");
24     WiFi.begin("Wokwi-GUEST", "", 6);
25     while (WiFi.status() != WL_CONNECTED) {
26       delay(100);
27       Serial.print(".");
28     }
29     Serial.println(" Connected!");
30   }
31 }
32
33 void loop()
34 {
35   digitalWrite(trigPin, LOW);
36   delayMicroseconds(2);
37   digitalWrite(trigPin, HIGH);
38   delayMicroseconds(10);
39   digitalWrite(trigPin, LOW);
40   duration=pulseIn(echoPin, HIGH);
41   distance=duration*0.034/2;
42   Serial.println("duration:"+String(distance)+"cm");
43 }
```

Simulation

01:16.702 99%

Editing Ultrasonic Distance Sensor

Distance: 290cm



duration:289cm  
duration:289cm  
duration:289cm  
duration:289cm  
duration:289cm  
duration:289cm