### Assignmen-4

Assignment Date	31 October 2022
Student Name	RIthika C
Team ID	PNT2022TMID01763
Project Name	Project-Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

#### Question-1:

Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device recent events.

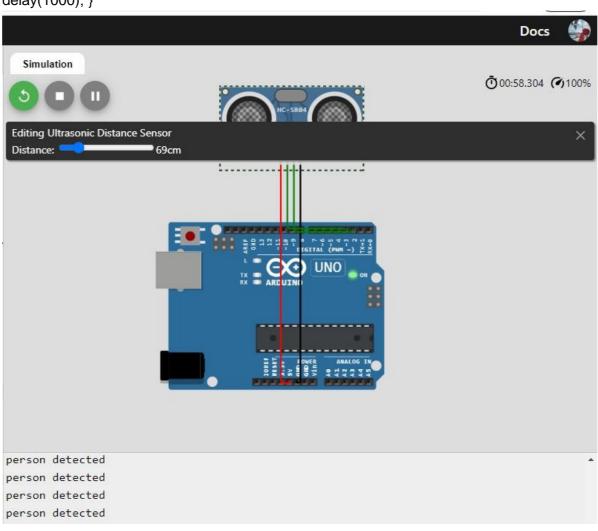
#### **Solution:**

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organisation =
"a09qmv" #define deviceType
= "device1"
#define deviceId ="1234"
#define authMethod ="use-token-auth"
#define authToken ="12345678"
void setup() {
Serial.begin(9600);
pinMode(TRIG_PIN,
OUTPUT);
pinMode(ECHO_PIN,
INPUT);
}
float readDistanceCM() {
digitalWrite(TRIG_PIN,
LOW);
delayMicroseconds(2);
digitalWrite(TRIG_PIN,
HIGH);
delayMicroseconds(10);
digitalWrite(TRIG_PIN,
LOW);
```

int duration = pulseIn(ECHO\_PIN,
HIGH); return duration \* 0.034 / 2;

```
void loop() {
float distance = readDistanceCM();

if(distance <= 100)
{
    Serial.println("person detected ");
}
else{
    Serial.print("Measured distance:
");
    Serial.println(readDistanceCM())
;
}
delay(1000); }
</pre>
```



# Wokwi Linkhttps://wokwi.com/projects/346567584774095442

## IBM Cloud

## **Device Recent Events**

