### Assignment-4

AssignmentDate	25October2022
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ProjectName	Project-SmartFarmer-IoTEnabledSmart
	FarmingApplication
MaximumMarks	2 Marks

#### Question-1:

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

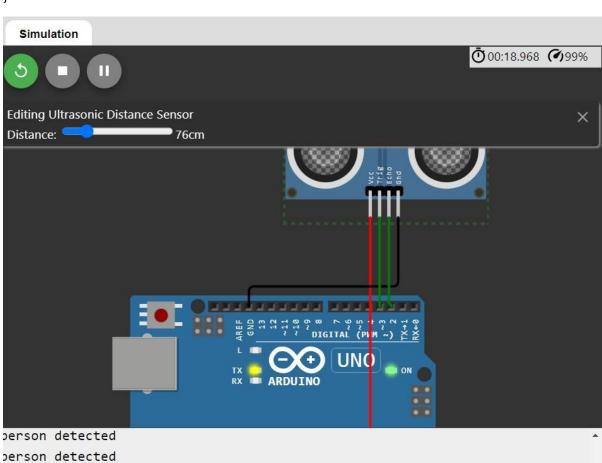
#### **Solution:**

```
#defineECHO_PIN2
#defineTRIG_PIN3
#define organization =
"mmbh4c"#define deviceType =
"Ultrasonic"#define deviceId =
"pga460_sensor"#define authMethod =
"use-token-auth"#define
authToken="123456789"
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); delay Microseconds (10)
 ;digitalWrite(TRIG_PIN,LOW);
 int duration = pulseIn(ECHO_PIN,
 HIGH);returnduration*0.034/2;
```

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

person detected

}



# WokwiLink: https://wokwi.com/projects/346662504898757203

# **IBMCloud**

### **DeviceRecentEvents**

