ASSIGNMENT 4

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

Question 1 #define ECHO_PIN 2 #define TRIG_PIN 3 #define organization ="gs1qmq" #define deviceType=" arduino" #define deviceId ="072005" #define authMethod ="use-token-auth" #define authToken ="gjF&YA(&iQ?DJQGV?Y" 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)</pre> Serial.println("person detected "); } else{ Serial.print("Measured distance: "); Serial.println(readDistanceCM()); delay(1000);

}

Wokwi project link: hwi.com/projects/347061902887617106





