# Assignment -4

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| Assignment Date | 31 October 2022 |
| Student Name | SURESH G |
| Team ID | PNT2022TMID50617 |
| 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)

{

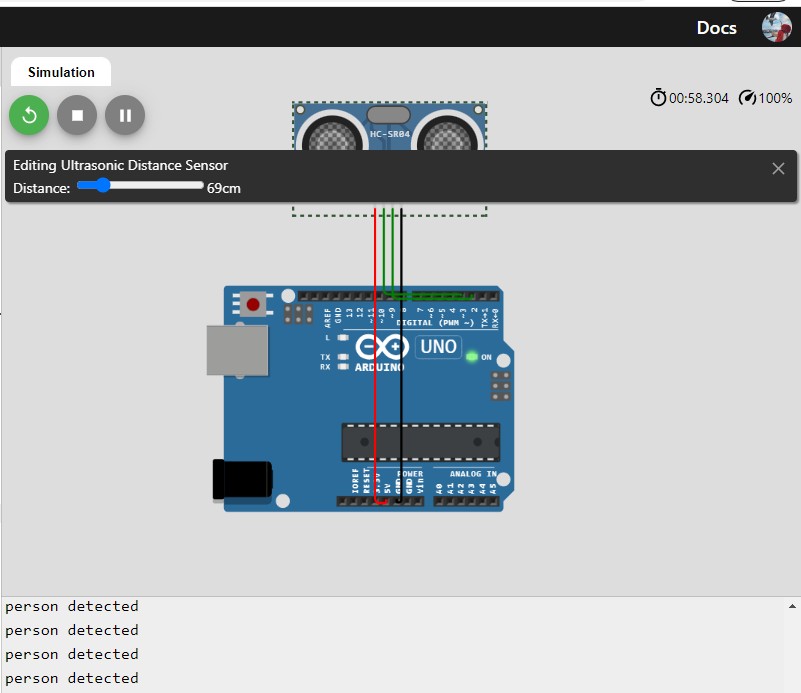
Serial.println("person detected ");

}

else{

Serial.print("Measured distance: "); Serial.println(readDistanceCM());

}

delay(1000); }

# Wokwi Link



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| ***IBM Cloud***  Device Recent Events |
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