***Assignment -4***

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| Assignment Date | 26 October 2022 |
| Student Name | Ramya. R |
| Team ID | PNT2022TMID48581 |
| 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 ");

}

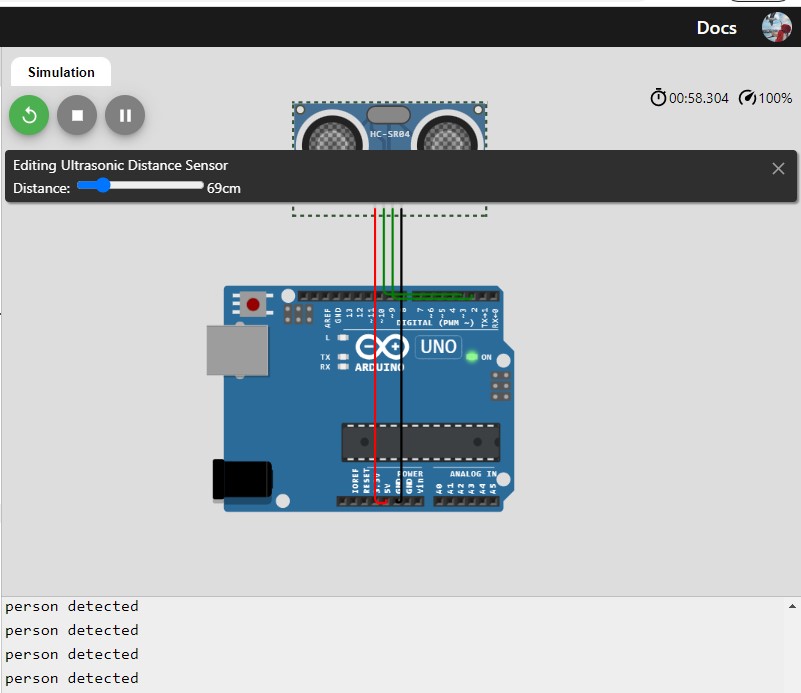
else{

Serial.print("Measured distance: ");

Serial.println(readDistanceCM());

}

delay(1000); }



***Wokwi Link***

***IBM Cloud***

Device Recent Events

