**Assignment -4**

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| Assignment Date | 26 October 2022 |
| Student Name | Mohamed Aslam A |
| Team ID | PNT2022TMID14625 |
| Project Name | Project-Smart Farmer-IoT Enabled Smart Farming Application |
| Maximum Marks | 2 Marks |

**Q1:**

**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 organization =”e03g10”

#define deviceType=” Arduino”

#define deviceId =”2502”

#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{

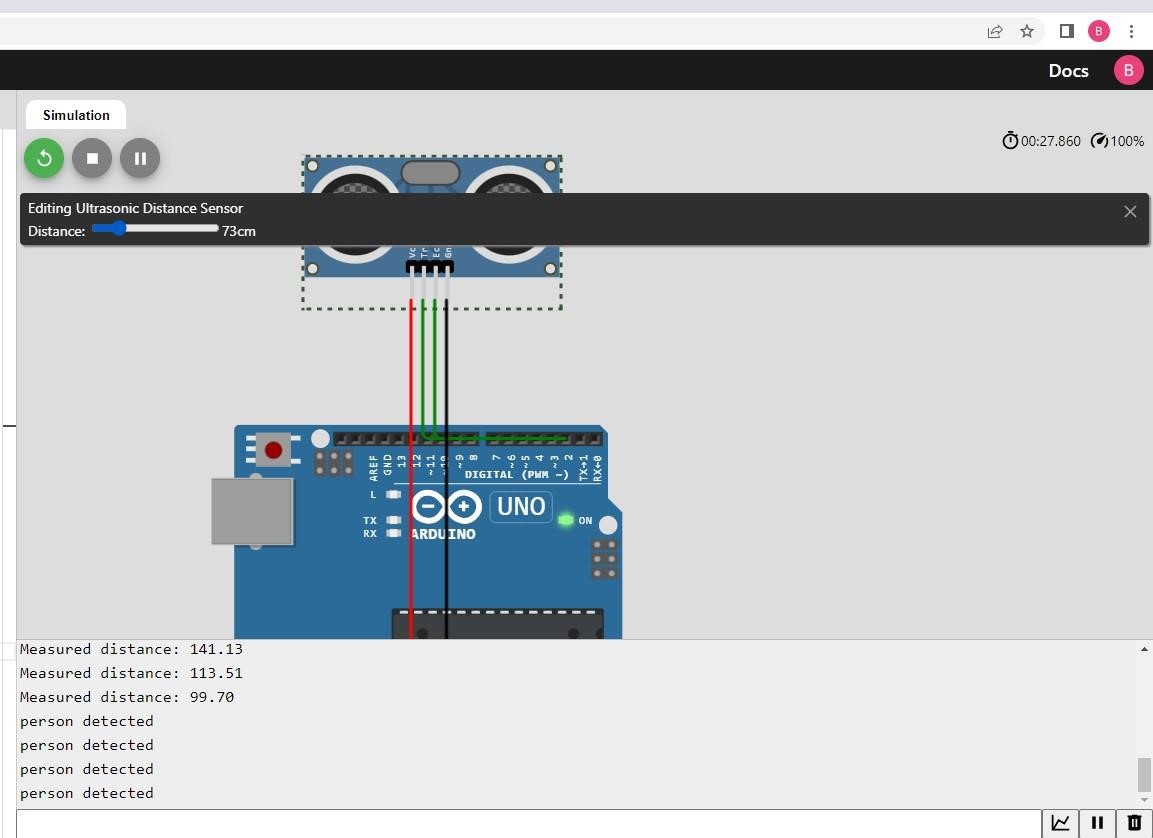
Serial.print("Measured distance: ");

Serial.println(readDistanceCM());

}

delay(1000);

}



***Wokwi Link:***  [***https://wokwi.com/projects/346567349532361298***](https://wokwi.com/projects/346567349532361298)

**IBM Cloud**

# Device Recent Events

