**Assignment-4**

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| AssignmentDate | 9thNovember2022 |
| Team ID | PNT2022TMID31434 |
| ProjectName | SmartFarmer-IoTEnabledSmartFarming  Application |
| Maximum Marks | 2Marks |

**Question-1:**

**Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cms send“alert”toibmcloud anddisplay indevicerecentevents.**

**Solution:**

#defineECHO\_PIN2

#defineTRIG\_PIN3

#define organization = “fkxdqs”#define deviceType = “Arduino”#definedeviceId=“1200”

#defineauthMethod=“use-token-auth”#defineauthToken=“00000000”

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);returnduration\*0.034/2;

}

void loop() {floatdistance=

readDistanceCM();if(distance<=100)

{

Serial.println("persondetected");

}

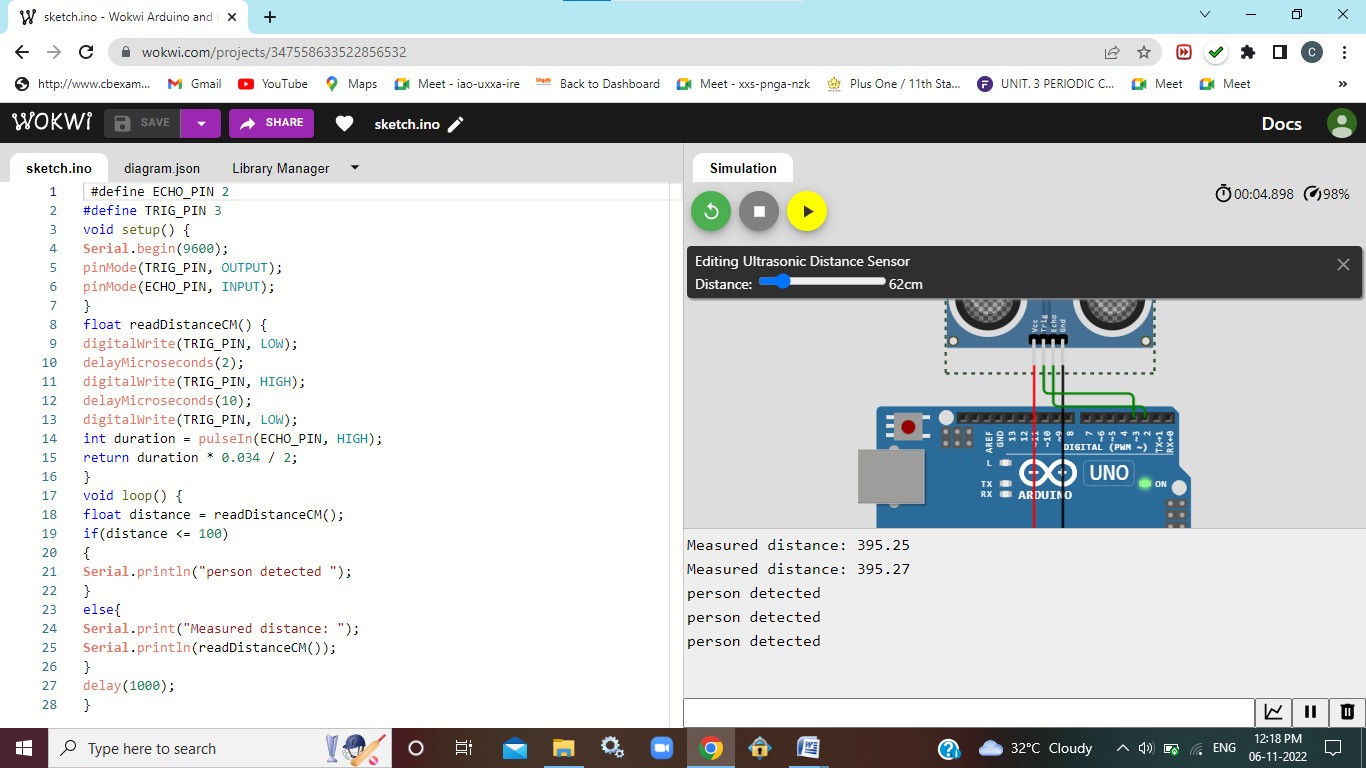
else{Serial.print("Measureddistance:");

Serial.println(readDistanceCM());

}

delay(1000);

}



**WokwiLink:**https://wokwi.com/projects/347558633522856532