# ASSIGNMENT-4 DISTANCE DETECTION USING ULTRASONIC SENSOR

Date	28 October 2022
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Project Name	Personal Assistance for Seniors Who Are Self Reliant
Maximum Marks	2 Marks

## Question:

- Write code and connections in wokwi for ultrasonic sensor.
- Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device recent events.

## **WOKWI LINK:**

https://wokwi.com/projects/305566932847821378

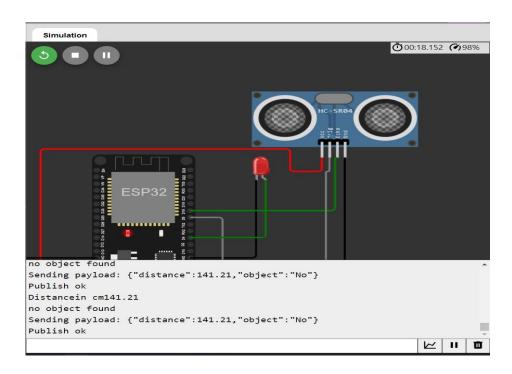
#### CODE:

```
esp32-blinkino  diagramjson Library Manager  initial  ini
```

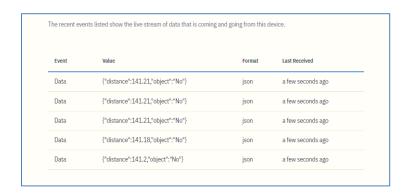
```
esp32-blink.ino ● diagram.json Library Manager ▼
        WiFiClient wifiClient;
       PubSubClient client(server,1883,callback,wifiClient);
  30 int LED=4;
       int trig=5;
  32 int echo=18;
  36 pinMode(trig, OUTPUT);
 pinMode(echo, INPUT);
pinMode(LED, OUTPUT);
delay(10);
      wificonnect();
       mqttconnect();
          digitalWrite(trig,LOW);
          digitalWrite(trig,HIGH);
delayMicroseconds(10);
          digitalWrite(trig, LOW);
float dur=pulseIn(echo,HIGH);
           float dist=(dur*0.0343)/2;
          Serial.print("Distancein cm");
Serial.println(dist);
```

#### **OUTPUT:**

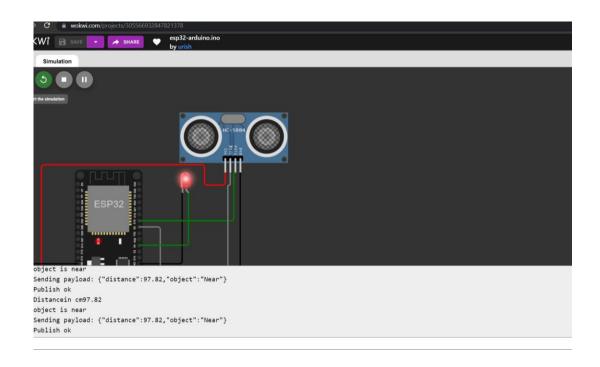
## **OUTPUT ON WOKWI SITE**



## **IBM CLOUD DATA GENERATION:**



## **OUTPUT ON WOKWI SITE**



## **IBM CLOUD DATA GENEREATION**

