ASSIGNMENT 4SUBMITTED J Kanimozhi

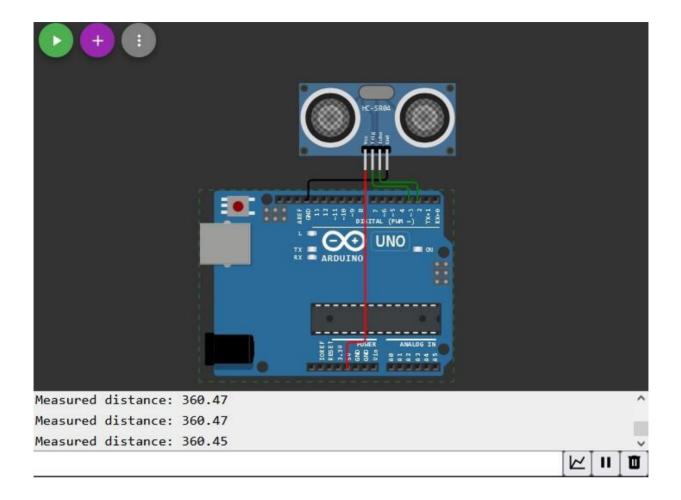
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AssignmentDate	260ctober 2022
Team ID	PNT2022TMID15087
Project Name	Gas leakage monitoring &Alerting system for industries
MaximumMarks	2Marks

Write code and connections in wokwi for ultrasonic. Whenever distance isless than 100 cms send "alert" to ibm cloud and display in device recentevents.

Solution:

```
#defineECHO_PIN2
#defineTRIG_PIN3
#define organization = "mmbh4c"#define
deviceType =
"Ultrasonic"#definedeviceId="1112"
#defineauthMethod="use-token-auth"
#dofineauthTakan="1994E6700"
void setup()
  {Serial.begin(9600);pinMode(TRIG_
  PIN,
  OUTPUT);pinMode(ECHO_PIN,INP
floatreadDistanceCM(){
  digitalWrite(TRIG_PIN,LOW);
```

```
delayMicroseconds(2);digitalWrite(TRI
  G_PIN,
  HIGH);delayMicroseconds(10);digitalW
  rite(TRIG_PIN,LOW);
  intduration=pulseIn(ECHO_PIN,HIGH);
  returnduration*0 034/2
voidloop(){
  float distance =
 readDistanceCM();if(distance<=100)</pre>
   Serial.println("persondetected");
 else{
 Serial.print("Measureddistance:");
  Serial.println(readDistanceCM());
  delay(100);
```



IBMCloud DeviceRecentEvents

