# Yogeshwari C Assignment - 4

Question-1; 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.

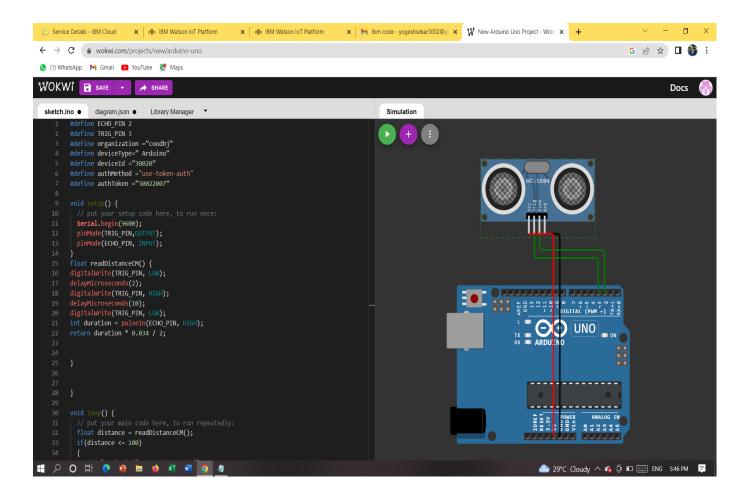
#### **Solutions**

```
#define ECHO PIN 2
#define TRIG_PIN 3
#define organization ="coodbj"
#define deviceType=" Arduino"
#define deviceId ="30020"
#define authMethod ="use-token-auth"
#define authToken ="30022007"
void setup() {
  // put your setup code here, to run once:
  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() {
  // put your main code here, to run repeatedly:
  float distance = readDistanceCM();
  if(distance <= 100)</pre>
    Serial.println("person detected ");
  else{
    Serial.print("Measured distance: ");
```

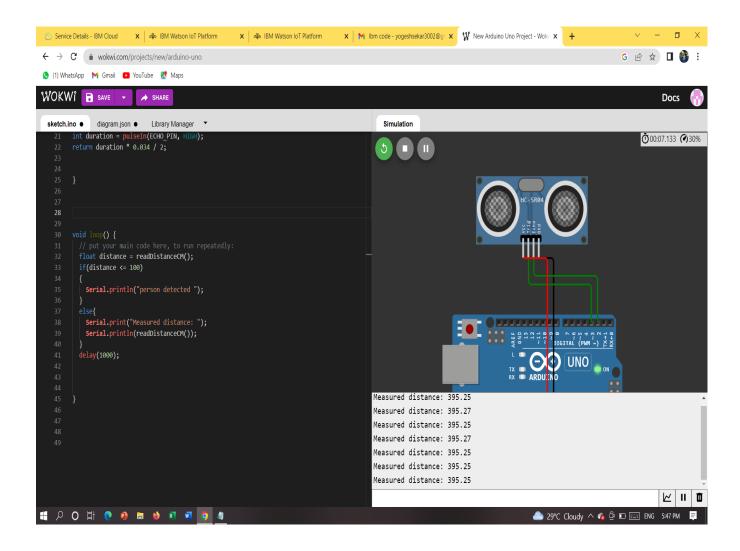
```
Serial.println(readDistanceCM())}
delay(1000);
```

}

# Input:



## Output:



Wokwi Link: <a href="https://wokwi.com/projects/347036538679329362">https://wokwi.com/projects/347036538679329362</a>

## **IBM CLOUD**

## **Device Recent Events**

