## ASSIGNMENT-4

Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cm's send "alert" to IBM cloud and display in device recent.

```
#define ECHO PIN 2
#define TRIG PIN 3
#define Organization ID = "xn4d5k"
#define Device Type = "TestDevice"
#define Device ID = "7122001"
#define Authentication Method = "use-token-auth"
#define Authentication Token = "ug9pNl&Nz0kvn31l0u"
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);
```











