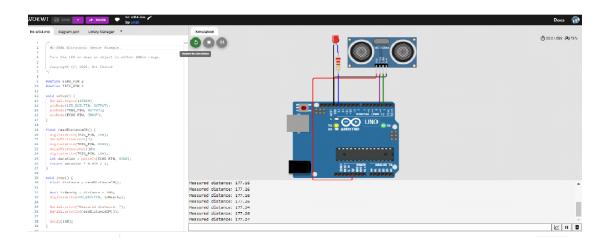
ASSIGNMENT 4

AssignmentDate	10 NOVEMBER 2022
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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 and a large with the property of the pro
```

```
#define ECHO_PIN 2
#define TRIG_PIN 3
void setup() {
 Serial.begin(115200);
 pinMode(LED_BUILTIN, OUTPUT);
 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() {
 float distance = readDistanceCM();
 bool isNearby = distance < 100;
 digitalWrite(LED_BUILTIN, isNearby);
 Serial.print("Measured distance: ");
 Serial.println(readDistanceCM());
 delay(100);
}
```