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.

```
#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());</pre>
```

```
delay(100);
}
```

