

Date	26 October 2022
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Maximum Marks	4 Marks

### Question:

Write code and connections in wokwi for ultrasonic sensor. whenever distance is less than 100 cms send "alert" to ubm cloud and display in device recent events

### Solution:

```
#define trigPin 8
#define echoPin 9
#define buzzer 10
long duration;
float distanceInch;
int timer;
void setup() {
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  pinMode(buzzer, OUTPUT);
}
void loop() {
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);

  delayMicroseconds(10);
```

```
        digitalWrite(trigPin, LOW);
        duration = pulseIn(echoPin, HIGH);
distanceInch = duration * 0.0133 / 2;
digitalWrite(buzzer, HIGH);
    delay(50);
        digitalWrite(buzzer, LOW);
        timer = distanceInch * 10;
    delay(timer);
}
```