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| Date | 26 October 2022 |
| Student Name | Zennera Fathima.K.A |
| Student Roll Number | 820419205070 |
| 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);

}