

Date	26 October 2022
Student Name	R. Karthika
Student Roll Number	820419205029
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);  
}
```