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);
        }
```