ASSIGNMENT- 4

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

Code :

```
# 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);
```

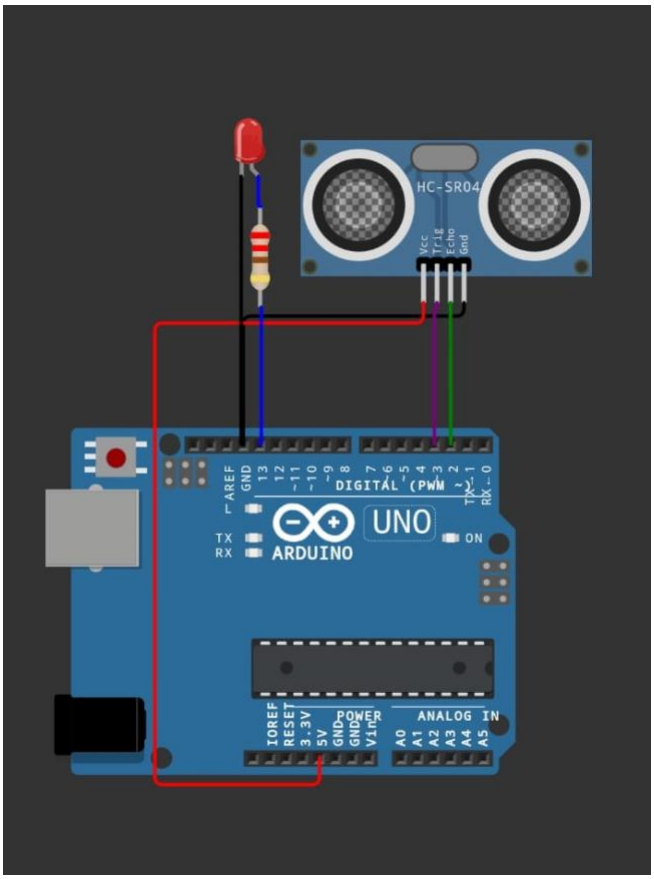
```
}
Float readDistanceCM() {
    digitalWrite(TRIG_PIN, LOW);
    delayMicroseconds(2);
    degitalWrite(TRIG_PIN, HIGH);
    delayMicroseconds(10);
    degitalWrite(TRIG_PIN, LOW);
      int duration = pulseIn(ECHO_PIN, HIGH);
      return duration * 0.034/2;
}
void loop() {
     float distance = readDistanceCM();

     bool isNearby = distance < 100;
     digitalWrite(LED_BUILTIN, isNearby);

      Serial.print(“Measured distance: “);
      Serial.print1n(readDistanceCM());
```

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

OUTPUT :



Reference: https://wokwi.com/projects/290056311044833800