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);

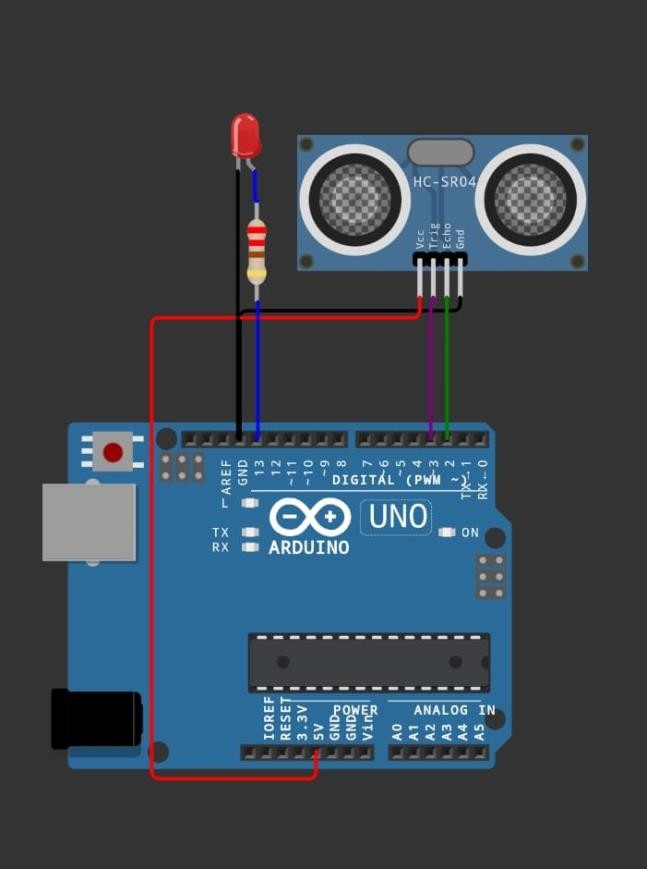
Serial.print(“Measured distance: “);

Serial.print1n(readDistanceCM());

delay(100);

}

OUTPUT :



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