**ASSIGNMENT – 4**

Write code and connections in wokwi for the ultrasonic sensor. Whenever the distance is less than 100 cms send an "alert" to the IBM cloud and display in the device recent events. Upload document with wokwi share link and images of IBM cloud

**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); digitalWrite(TRIG\_PIN, HIGH); delayMicroseconds(10); digitalWrite(TRIG\_PIN, LOW); int duration = pulseIn(ECHO\_PIN, HIGH); return duration \* 0.034/2;

} void loop()

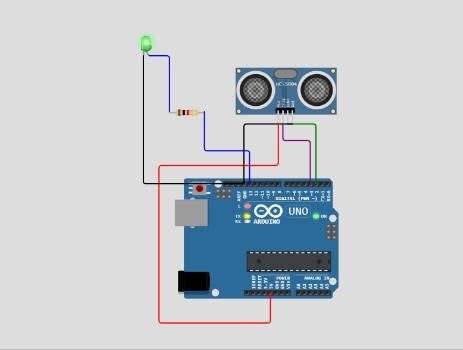
{

float distance = readDistanceCM();

bool isNearby = distance < 100; digitalWrite(LED\_BUILTIN, isNearby); **Serial**.print("Measured distance:"); **Serial**.println(readDistanceCM()); delay(100);

}

**OUT PUT:**



**Reference :**<https://wokwi.com/projects/346659942205227602>

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