

WOWKI LINK: <https://wokwi.com/projects/346826987081302611>

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);
}
```

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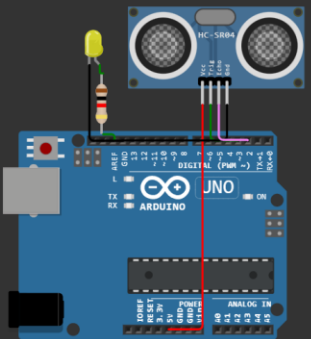
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4 void setup() {
5   Serial.begin(115200);
6   pinMode(LED_BUILTIN, OUTPUT);
7   pinMode(TRIG_PIN, OUTPUT);
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9 }
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11 float readDistanceCM() {
12   digitalWrite(TRIG_PIN, LOW);
13   delayMicroseconds(2);
14   digitalWrite(TRIG_PIN, HIGH);
15   delayMicroseconds(10);
16   digitalWrite(TRIG_PIN, LOW);
17   int duration = pulseIn(ECHO_PIN, HIGH);
18   return duration * 0.034 / 2;
19 }
20
21 void loop() {
22   float distance = readDistanceCM();
23
24   bool isNearby = distance < 100;
25   digitalWrite(LED_BUILTIN, isNearby);
26
27   Serial.print("Measured distance: ");
28   Serial.println(readDistanceCM());
29
30   delay(100);
31 }
32
```

Simulation



29°C Rain coming

ENG IN 11:30 29-10-2022

IBM Cloud

The screenshot shows the IBM Watson IoT Platform interface. The browser address bar indicates the URL: `1784p.internetofthings.ibmcloud.com/dashboard/devices/drilldown/SKDR?returnTo=/devices/browse`. The page title is "Device Drilldown - SKDR".

Left Sidebar (Navigation Menu):

- Device Credentials
- Connection Information** (Selected)
- Recent Events
- State
- Device Information
- Metadata
- Diagnostics
- Connection Logs
- Device Actions

Connection Information:

Basic connection information about this device.

Device ID	SKDR
Device Type	SKDRTM
Date Added	Oct 29, 2022 11:45 AM
Added By	732119106032@smartinternz.com
Connection Status	Disconnected

Recent Events:

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
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Taskbar:

- Open files: Tamil.pdf, Screenshot (11).png, Manju.pdf, WhatsApp Image...jpeg, SK.pdf
- System tray: 30°C Cloudy, Windows Start button, Search, Task View, File Explorer, Microsoft Edge, WhatsApp, and system icons (Network, Volume, Battery, Time: 11:46, Date: 29-10-2022).