ASSIGNMENT-4

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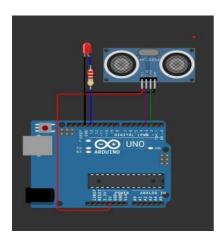
Write code and connection in wokwi for ultrasonic sensor. whenever distance is less than 100 cms send alert to ibm cloud and display in device recent events.

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);
}</pre>
```

OUTPUT:



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