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.

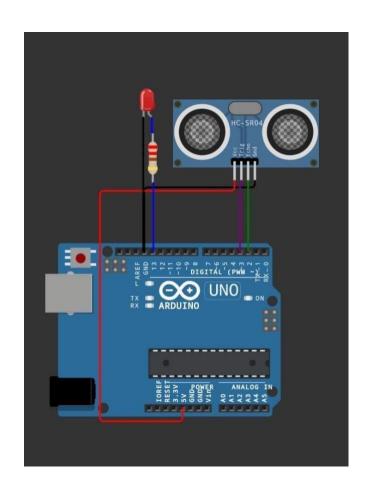
```
Code:
```

```
# 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();
```

OUTPUT:



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