IBM Assingment-4

Write code and connections in wokwi for ultrasonic sensor.

Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device

By:

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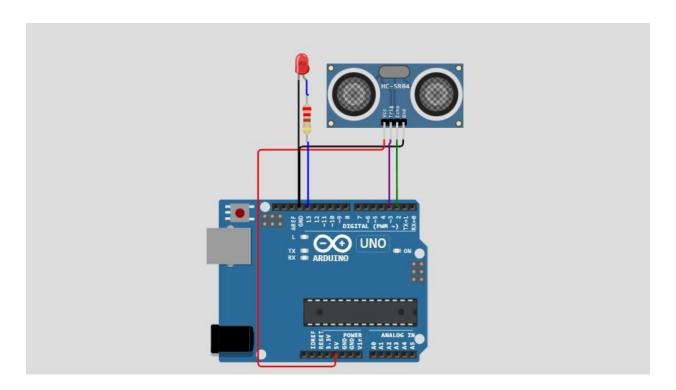
CODING:

```
/*
HC-SR04 Ultrasonic Sensor Example.
  Turn the LED on when an object is within 100cm range.
  Copyright (C) 2021, Uri Shaked
#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);
duration = pulseIn(ECHO PIN, HIGH);
return duration * 0.034 / 2;
}
 void loop()
  float distance = readDistanceCM();
  bool isNearby = distance < 100;</pre>
digitalWrite(LED_BUILTIN, isNearby);
```

```
Serial.print("Measured distance: ");
Serial.println(readDistanceCM());

delay(100);
}
```

OUTPUT:



Link:

https://wokwi.com/projects/290056311044833800