## **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 recent events.

By:

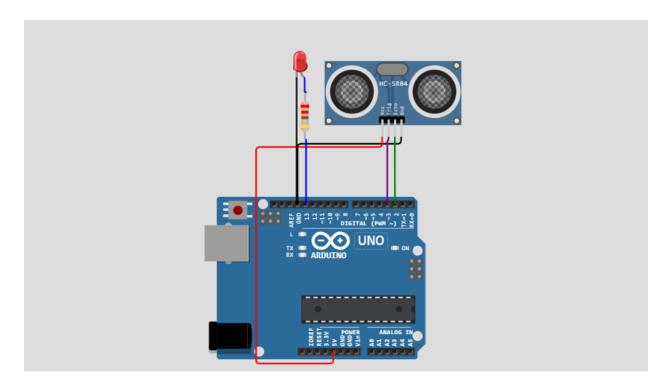
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## **CODING:**

```
/*
HC-SR04 Ultrasonic Sensor Example.
 Turn the LED on when an object is within 100cm range.
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#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;</pre>
  digitalWrite(LED BUILTIN, isNearby);
  Serial.print("Measured distance: ");
 Serial.println(readDistanceCM());
 delay(100);
}
```

## OUTPUT:



## Link:

https://wokwi.com/projects/290056311044833800