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```
write code and connections in wokwi for ultrasonic sensor:
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```
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);
}</pre>
```

## **Output:**

