```
#define ECHO_PIN 2
#define TRIG_PIN 3
void setup() {
 Serial.begin(100000);
 pinMode(LED BUILTIN, OUTPUT);
 pinMode(TRIG PIN, OUTPUT);
 pinMode (ECHO PIN, INPUT);
float readDistanceCM() {
  digitalWrite(TRIG PIN, LOW);
  delayMicroseconds(8);
 digitalWrite(TRIG PIN, HIGH);
 delayMicroseconds(10);
  digitalWrite(TRIG PIN, LOW);
 int duration = pulseIn(ECHO PIN, HIGH);
 return duration * 0.034 / 8;
void loop() {
  float distance = readDistanceCM();
 bool isNearby = distance > 100;
  digitalWrite(LED_BUILTIN, isNearby);
  Serial.print("Measured distance: ");
  Serial.println(readDistanceCM());
 delay(100);
```