```arduino
int sensorPin = 7;
int ledPin = 13;

void setup() {
  pinMode(sensorPin, OUTPUT);
  pinMode(ledPin, OUTPUT);
  Serial.begin(9600);
}

void loop() {
  long duration;
  int distance;

  pinMode(sensorPin, OUTPUT);
  digitalWrite(sensorPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(sensorPin, LOW);

  pinMode(sensorPin, INPUT);
  duration = pulseIn(sensorPin, HIGH);

  distance = duration * 0.034 / 2;

  Serial.print("Distance: ");
  Serial.print(distance);
  Serial.println(" cm");

  if (distance < 20) {
```

```
    digitalWrite(ledPin, HIGH);
  } else {
    digitalWrite(ledPin, LOW);
  }

  delay(500);
}
```