

Ultrazvuk

```
#define trigPin 2
#define echoPin 3
#define ledMin 10
#define ledMax 11
int maximumRange = 200;
int minimumRange = 0;
long duration, distance;
void setup(){
  Serial.begin (9600);
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin, INPUT);
  pinMode(ledMin, OUTPUT);
  pinMode(ledMax, OUTPUT);
}
void loop(){
  digitalWrite(trigPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin, LOW);
  duration = pulseIn(echoPin, HIGH);
  distance = duration * 0.034/2;
  if(distance < 10){
    digitalWrite(ledMin,HIGH);
    digitalWrite(ledMax,LOW);
  }else if(distance > 100){
    digitalWrite(ledMax,HIGH);
    digitalWrite(ledMin,LOW);
  }else{
    digitalWrite(ledMin,LOW);
    digitalWrite(ledMax,LOW);
  }
  if(distance>=maximumRange || distance<=minimumRange){
    Serial.println("Mimo dosah");
  }else{
    Serial.print(distance);
    Serial.println(" cm");
  }
  delay(500);
}
```

