

```
Const int UltraPin = 7;
Const int ledPin = 4;
Const int buzzer = 3;
Void setup() {
 Serial.begin(9600);
 pinMode(ledPin, OUTPUT);
 pinMode(buzzer, OUTPUT);
}
Void loop() {
 Long duration, cm;
 pinMode(UltraPin, OUTPUT);
 digitalWrite(UltraPin, LOW);
 delayMicroseconds(2);
 digitalWrite(UltraPin, HIGH);
 delayMicroseconds(5);
 digitalWrite(UltraPin, LOW);
 pinMode(UltraPin, INPUT);
 duration = pulseIn(UltraPin, HIGH);
// convert the time into a distance
 Cm = microsecondsToCentimeters(duration);
 // Print the distance
```

```
Serial.print("Distance: ");
 Serial.print(cm);
 Serial.print("cm");
 Serial.println();
// Turn on the LED if the object is too close:
 If(cm < 100) {
  digitalWrite(ledPin, HIGH);
  digitalWrite(buzzer, HIGH);
}
 Else {
  digitalWrite(ledPin, LOW);
  digitalWrite(buzzer, LOW);
}
 Delay(100);
}
Long microsecondsToCentimeters(long microseconds) {
 Return microseconds / 29 / 2;
}
```