

```
const int trigpin=3;

const int echopin=4;

const unsigned int maxdist=23200;

void setup(){
  pinMode(trigpin,OUTPUT);
  digitalWrite(trigpin,LOW);
  pinMode(echopin,INPUT);
  Serial.begin(9600);
}

void loop(){
  unsigned long t1;
  unsigned long t2;
  unsigned long pulsewidth;
  float cm;
  float inches;
  digitalWrite(trigpin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigpin, LOW);
  while(digitalRead(echopin)==0);
  t1=micros();
  while(digitalRead(echopin)==1);
  t2=micros();
  pulsewidth=t2-t1;
  cm=pulsewidth/58;
  inches=pulsewidth/148.0;
  if(pulsewidth>maxdist){
```

```
Serial.println("Out of range");  
  
}else{  
Serial.println("Distance in cm: ");  
Serial.println(cm);  
if(cm<100){  
while(true){  
Serial.println("Alert");  
}  
}  
}  
delay(1000);
```