```
const int TP =7;
const int echop = 8;

unsigned int max_d =23300;

void setup(){
   pinMode(TP,OUTPUT);
   digitalWrite(TP,LOW);
  pinMode(echop,INPUT);

  Serial.begin(9600);
}

void loop(){
  unsigned long t1;
  unsigned long t2;
  unsigned long pw;
  float cm;
  float inches;

  digitalWrite(TP,HIGH);
  delayMicroseconds(10);
  digitalWrite(TP,LOW);
  while(digitalRead(echop)==0);
  t1 =micros();

  while (digitalRead(echop)==1);
  t2=micros();
  pw=t2-t1;
   cm=pw/58;
   inches=pw/148.0;

  if(pw>max_d)
   {
    Serial.println("Out of range");
   }
  else
   {
    Serial.println("****");
    Serial.print("The distance is");
    Serial.println(cm);

    if(cm<100){
    }Serial.print("****");
```

```
  }
  delay(1000);

}
```

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```
11      Serial.begin(9600);
12  }
13
14  void loop(){
15      unsigned long t1;
16      unsigned long t2;
17      unsigned long pw;
18      float cm;
19      float inches;
20
21      digitalWrite(TP,HIGH);
22      delayMicroseconds(10);
23      digitalWrite(TP,LOW);
24      while(digitalRead(echop)==0);
25      t1 =micros();
26
27      while (digitalRead(echop)==1);
28      t2=micros();
29      pw=t2-t1;
30      cm=pw/58;
31      inches=pw/148.0;
32
33      if(pw>max_d)
34          {
35          Serial.println("Out of range");
36          }
37      else
38          {
39          Serial.println("****");
40          Serial.print("The distance is");
41          Serial.println(cm);
42
43          if(cm<100){
44          }Serial.print("****");
```