

```

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("*****");
    }
  }
}

```

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}  
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("\*\*\*\*\*");

Simulation

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