

## ASSIGNMENT 4

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### CODE:

```
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);  
}
```

