



```

1 #include<Servo.h>
2 Servo myservo;
3 int echo=2,trig=3;
4 int distance_funtion(int echo,int trig);
5
6
7
8 void setup()
9 {
10     Serial.begin(9600);
11     myservo.attach(7);
12     pinMode(echo,INPUT);
13     pinMode(trig,OUTPUT);
14 }
15
16
17 void loop()
18 {
19     if(distance_funtion(echo,trig)<30){
20         myservo.write(90);
21         delay(4000);}
22     else { myservo.write(0);}
23 }
24 int distance_funtion(int echo,int trig){
25     digitalWrite(trig,LOW);
26     delay(2);
27     digitalWrite(trig,HIGH);
28     delay(10);
29     digitalWrite(trig,LOW);
30
31     int duration=pulseIn(echo,HIGH);
32     int distance=(.034*duration)/2;

```

 Serial Monitor

SMART DUSTBIN

```
#include<Servo.h>
Servo myservo;
int echo=2,trig=3;
int distance_funtion(int echo,int trig);
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void setup()
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  Serial.begin(9600);
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void loop()
{
  if(distance_funtion(echo,trig)<30){
    myservo.write(90);
    delay(4000);}
  else { myservo.write(0);}
}
```

```
int distance_funtion(int echo,int trig){  
    digitalWrite(trig,LOW);  
    delay(2);  
    digitalWrite(trig,HIGH);  
    delay(10);  
    digitalWrite(trig,LOW);  
  
    int duration=pulseIn(echo,HIGH);  
    int distance=(.034*duration)/2;  
    return distance;}
```