



Link :

[https://www.tinkercad.com/things/kYj0IRfxKrj-neat-elzing-curcan/editel?sharecode=MZwF9w-8rk\\_DbiCxeP4E-W7-h3f6jFlaW8cS0\\_rV5NM](https://www.tinkercad.com/things/kYj0IRfxKrj-neat-elzing-curcan/editel?sharecode=MZwF9w-8rk_DbiCxeP4E-W7-h3f6jFlaW8cS0_rV5NM)

Code :

```
#include <Servo.h>

Servo a;
int trigger=6;
int echo=7;
int motion=2;
int led1=3;
int led2=4;
void setup()
{
  Serial.begin(9600);
  pinMode(trigger,OUTPUT);
  pinMode(echo,INPUT);
  pinMode(motion,INPUT);
  pinMode(led1,OUTPUT);
  pinMode(led2,OUTPUT);
  a.attach(5);
  a.write(0);
  digitalWrite(led1,LOW);
  digitalWrite(led2,LOW);
}

void loop()
{
  int p = digitalRead(motion);
  if(p)
```

```
{  
  
    digitalWrite(led1,HIGH);  
    digitalWrite(led2,HIGH);  
    tone(11,5000);  
    delay(5000);  
    digitalWrite(led1,LOW);  
    digitalWrite(led2,LOW);  
    noTone(11);  
}  
digitalWrite(trigger,LOW);  
digitalWrite(trigger,HIGH);  
delayMicroseconds(10);  
digitalWrite(trigger,LOW);  
float duration = pulseIn(echo,HIGH);  
float dist = (duration*0.0343)/2;  
if(dist<50)  
{  
  
    a.write(90);  
    delay(5000);  
    a.write(0);  
}  
}
```