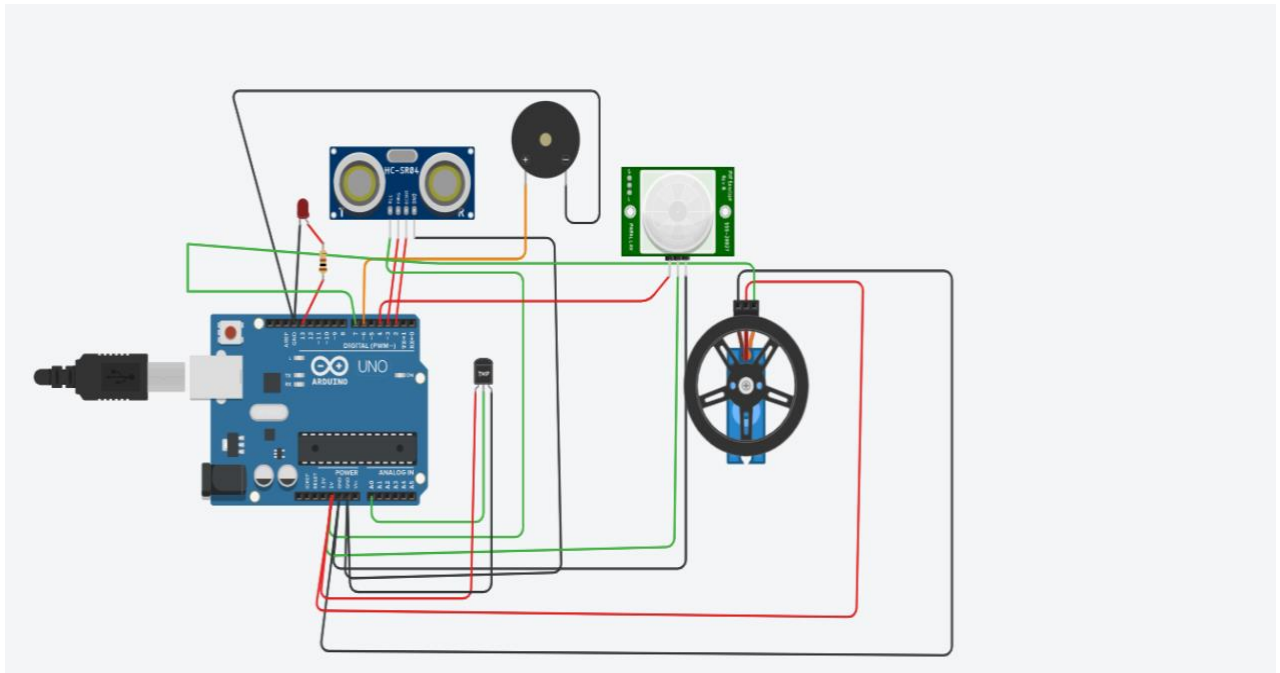


HOME AUTOMATION



PROGRAM:

```
#include<Servo.h>
```

```
Servo s;
```

```
int t=3;
```

```
int e=2;
```

```
int i=4;
```

```
void setup()
```

```
{  
  Serial.begin(9600);  
  pinMode(t,OUTPUT);  
  pinMode(e,INPUT);  
  pinMode(i,INPUT);  
  pinMode(6,OUTPUT);  
  pinMode(13,OUTPUT);  
  pinMode(7,OUTPUT);  
  s.attach(7);  
}  
void loop()  
{  
  digitalWrite(t,LOW);  
  digitalWrite(t,HIGH);  
  delayMicroseconds(10);  
  digitalWrite(t,LOW);  
  float dur=pulseIn(e,1);  
  float dis=(dur*0.0343)/2;  
  Serial.print("Distance:");  
  Serial.println(dis);  
  if(dis<50)
```

```
{  
  digitalWrite(13,1);  
  delay(1000);  
  int p=digitalRead(4);  
  Serial.print("Door status:");  
  Serial.println(p);  
  for(int j=p;j==1;j++)  
  {  
    tone(6,j);  
    delay(1000);  
    noTone(6);  
  
  }  
  double a=analogRead(A0);  
  double c((((a/1024)*5)-0.5)*100);  
  Serial.print("Temp Value: ");  
  Serial.println(c);  
  Serial.print("\n");  
  if(c>90)  
  {  
    s.write(0);
```

```
    delay(1000);  
    s.write(7);  
    delay(1000);  
    s.write(135);  
    delay(1000);  
    s.write(180);  
    delay(1000);  
  }  
}  
else  
{  
  digitalWrite(13,0);  
  delay(1000);  
}  
}
```

LINK:

<https://www.tinkercad.com/things/62bmLYIvT8o>