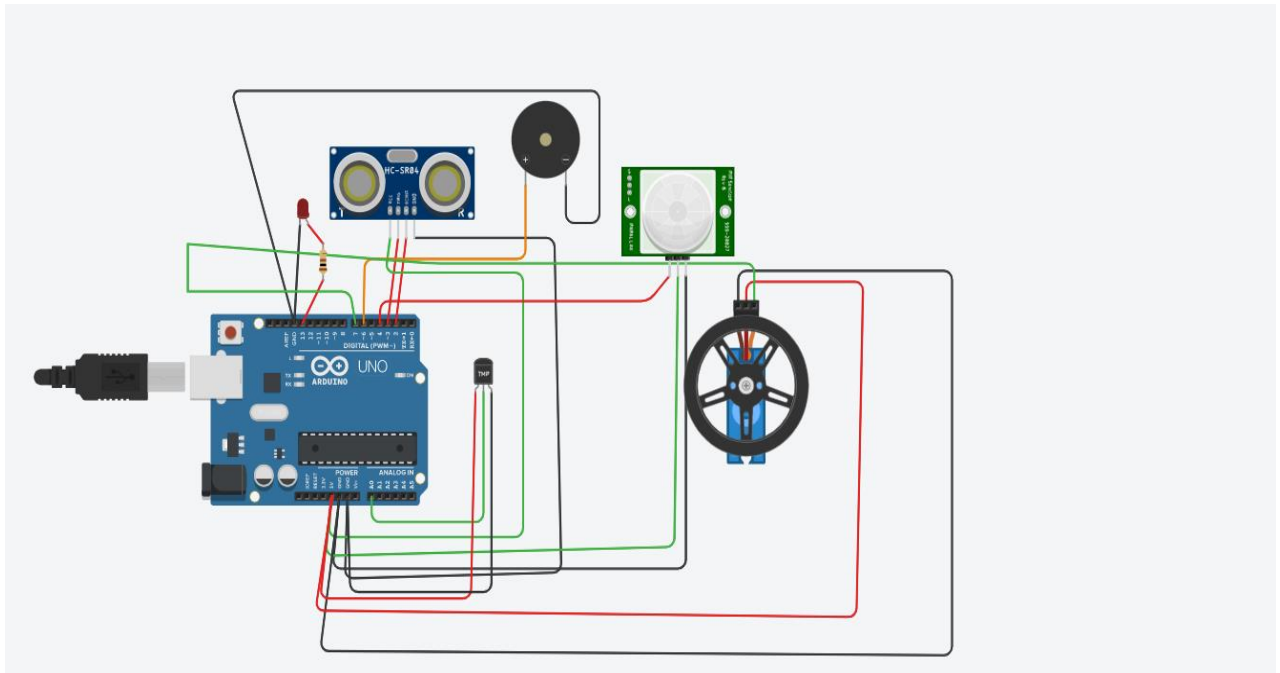


# HOME AUTOMATION



## 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?sharecode=D1um4DqshhHD\\_CrfDR8VroK185cRsY2oVg4KQDzKl30](https://www.tinkercad.com/things/62bmLYIvT8o?sharecode=D1um4DqshhHD_CrfDR8VroK185cRsY2oVg4KQDzKl30)