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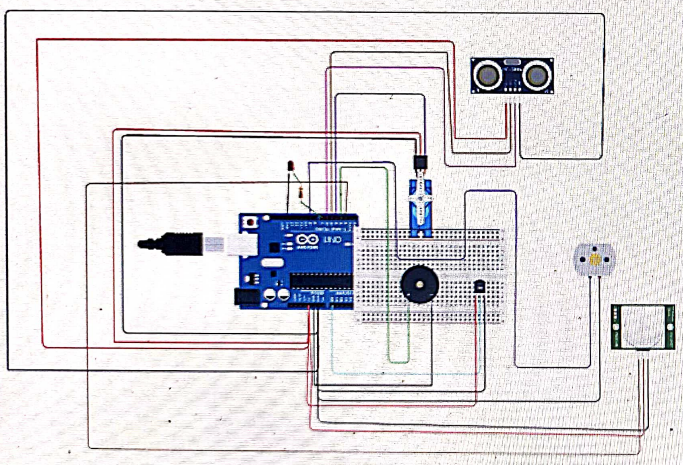

Text | 1 (Arduino Uno R3)

```
//home automation
//
#include<Servo.h>
#define outsens 2
#define insens 5
#define buzzer 3
#define shutter 4
#define tablefan 9
#define tempsens A0
#define LED 7

int trival=6;
int sound=7;
float time_ms, dist_cm;
Servo Myservo;
void setup()
{
  pinMode(outsens, INPUT);
  pinMode(buzzer,OUTPUT);
  pinMode(insens, INPUT);
  Myservo.attach(4);
  pinMode(tablefan,OUTPUT);
  Serial.begin(9600);
  pinMode(trival, OUTPUT);
  pinMode(sound, INPUT);
```

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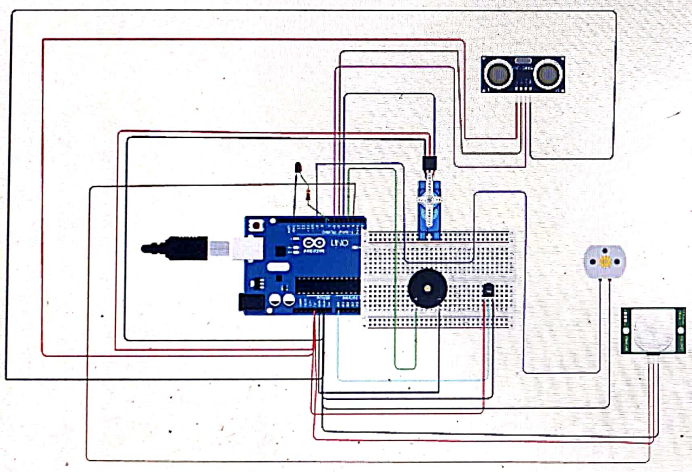

Text | 1 (Arduino Uno R3)

```
}
void loop()
{

  //out shutter
  if(digitalRead(outsens)==0)
  {
    digitalWrite(buzzer,0);
  }
  else
  {
    digitalWrite(buzzer,1);
    delay(500);
    digitalWrite(buzzer,0);
  }
  //in shutter

  digitalWrite(trival, HIGH);
  delay(100);
  digitalWrite(trival, LOW);
  time_ms = pulseIn(sound, HIGH);
  dist_cm = 0.012 * time_ms;
  Serial.print("dist_cm:");
  Serial.print(dist_cm);
  Serial.println("cm");
```

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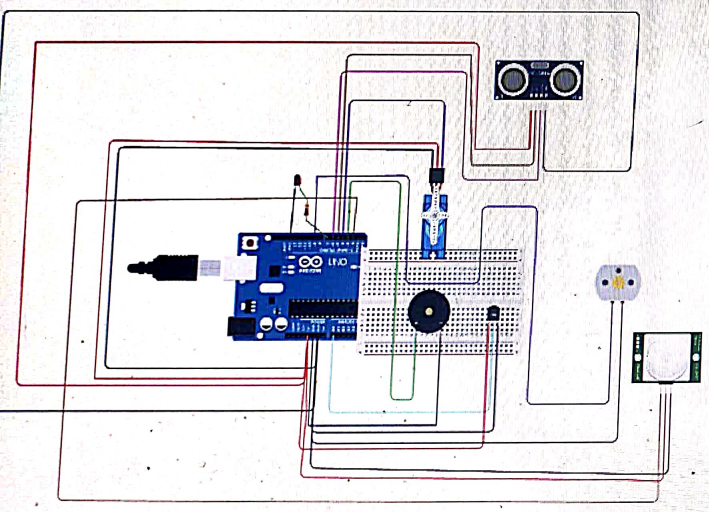
Text | 1 (Arduino Uno R3)



```
52    Serial.println("cm");
53    delay(1000);
54
55     if(dist_cm>90)
56     {
57      Myservo.write(0);
58    }
59    else
60
61    {
62      Myservo.write(90);
63    }
64      int val = analogRead(tempsens);
65      val = map(val, 20,358, 0,1000);
66
67    if(val<=100)
68    {
69      analogWrite(tablefan ,0);
70    }
71    else if(val<=500)
72    {
73      analogWrite(tablefan ,val);
74    }
75    else
76    {
77      analogWrite(tablefan ,0);
```

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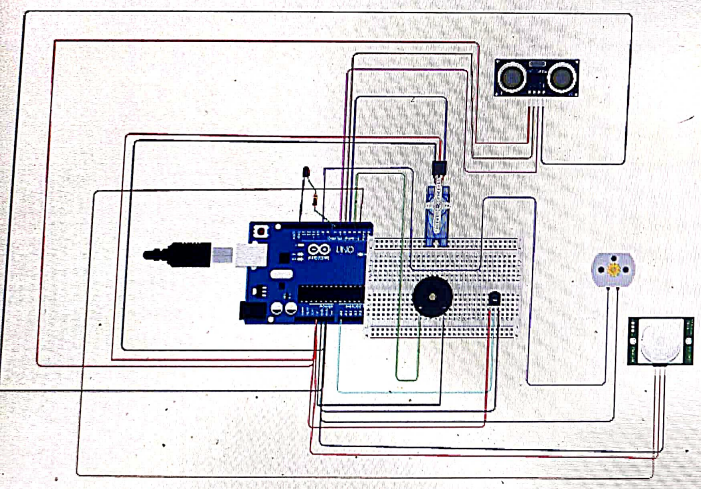

Text | 1 (Arduino Uno R3)

```
61    {
62      Myservo.write(90);
63    }
64      int val = analogRead(tempsens);
65      val = map(val, 20,358, 0,1000);
66
67    if(val<=100)
68    {
69      analogWrite(tablefan ,0);
70    }
71    else if(val<=500)
72    {
73      analogWrite(tablefan ,val);
74    }
75    else
76    {
77      analogWrite(tablefan ,0);
78      digitalWrite(buzzer,1);
79        delay(500);
80      digitalWrite(buzzer,0);
81        delay(200);
82      digitalWrite(LED,HIGH);
83    }
84
85    Serial.println(val);
86  }
```

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