

# SMART HOME

(Automatic light)

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## INTRODUCTION

This is a n Ardino based system automated light system . This project idea based on an Ardunio controller and whole project will give very good understanding how the system work .The step by step method is explained so that you can make this system .

The hardware connection,pin information and arduino program is explained clearly

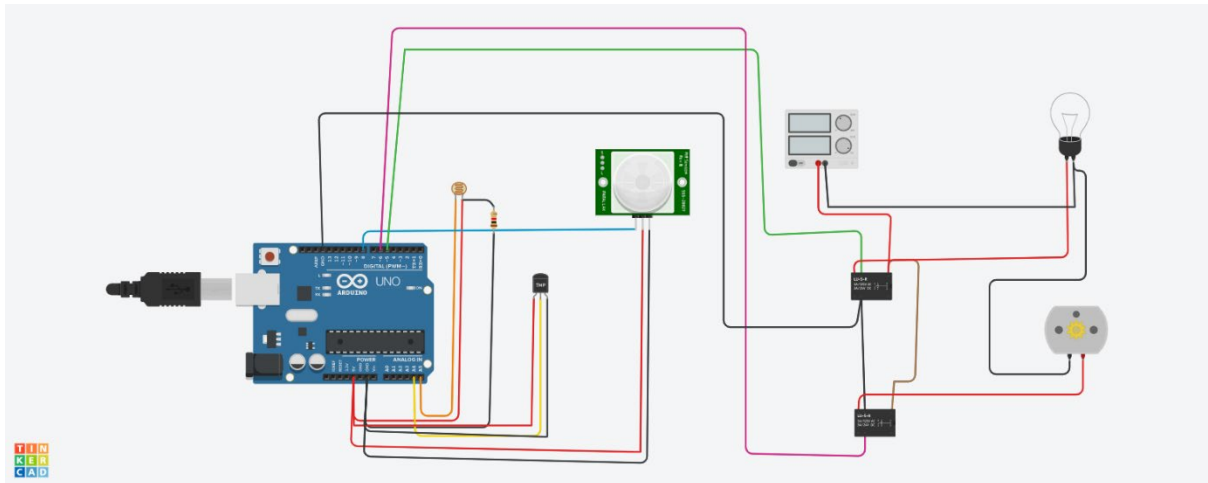
## CODE:

```
float x,y,z,temp;  
void setup()  
{  
  pinMode(8, INPUT);  
  pinMode(5, OUTPUT);  
  pinMode(6, OUTPUT);  
  pinMode(A5, INPUT);
```

```
pinMode(A4, INPUT);
Serial.begin(9600);
}
void loop()
{
  x= digitalRead(8);
  y= analogRead(A5);
  z= analogRead(A4);
  Serial.println(x);
  Serial.println(y);
  Serial.println(z);
  temp = (double)z / 1024;
  temp = temp * 5;
  temp = temp - 0.5;
  temp = temp * 100;
  if ( (x>0) )
  {
    if ((y<550)&&(temp>30))
    {
      digitalWrite(5, HIGH);
      digitalWrite(6, HIGH);
    }
    else if((y<550)&&(temp<30))
    {
      digitalWrite(5, HIGH);
      digitalWrite(6, LOW);
    }
  }
}
```

```
}  
else if((y>550)&&(temp>30))  
{  
    digitalWrite(5, LOW);  
    digitalWrite(6, HIGH);  
}  
else if((y>550)&&(temp<30))  
{  
    digitalWrite(5, LOW);  
    digitalWrite(6, LOW);  
}  
}  
else  
{  
    digitalWrite(5, LOW);  
    digitalWrite(6, LOW);  
}  
}
```

**FIGURE:**



TINKERCAD LINK:

<https://www.tinkercad.com/things/2TwdlBgxUTP-swanky-inari-albar>