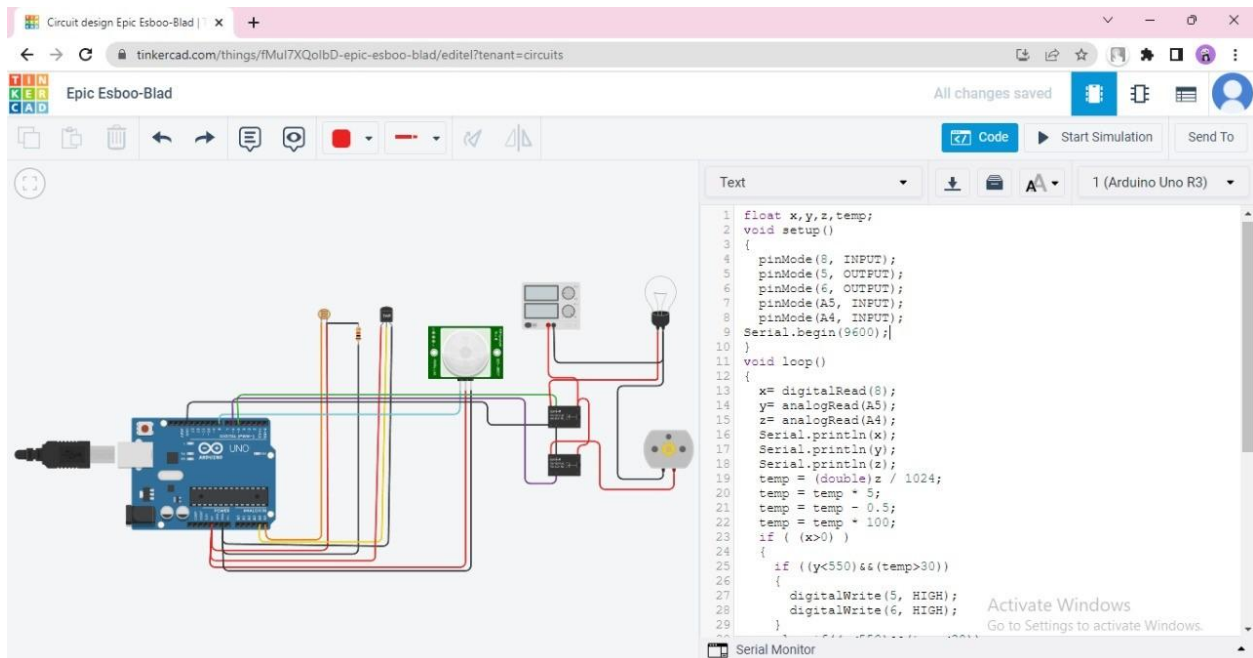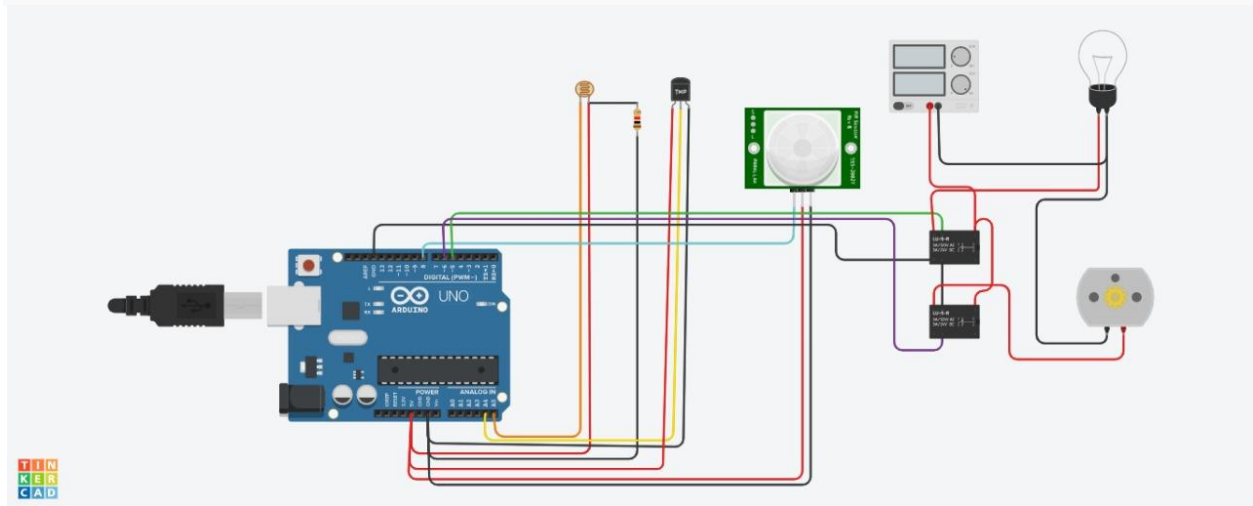# Smart Home Automation:


```
1  float x,y,z,temp;
2  void setup()
3  {
4    pinMode(8, INPUT);
5    pinMode(5, OUTPUT);
6    pinMode(6, OUTPUT);
7    pinMode(A5, INPUT);
8    pinMode(A4, INPUT);
9  Serial.begin(9600);
10 }
11 void loop()
12 {
13   x= digitalRead(8);
14   y= analogRead(A5);
15   z= analogRead(A4);
16   Serial.println(x);
17   Serial.println(y);
18   Serial.println(z);
19   temp = (double)z / 1024;
20   temp = temp * 5;
21   temp = temp - 0.5;
22   temp = temp * 100;
23   if ( (x>0) )
24   {
25     if ((y<550)&&(temp>30))
26     {
27       digitalWrite(5, HIGH);
28       digitalWrite(6, HIGH);
29     }
```
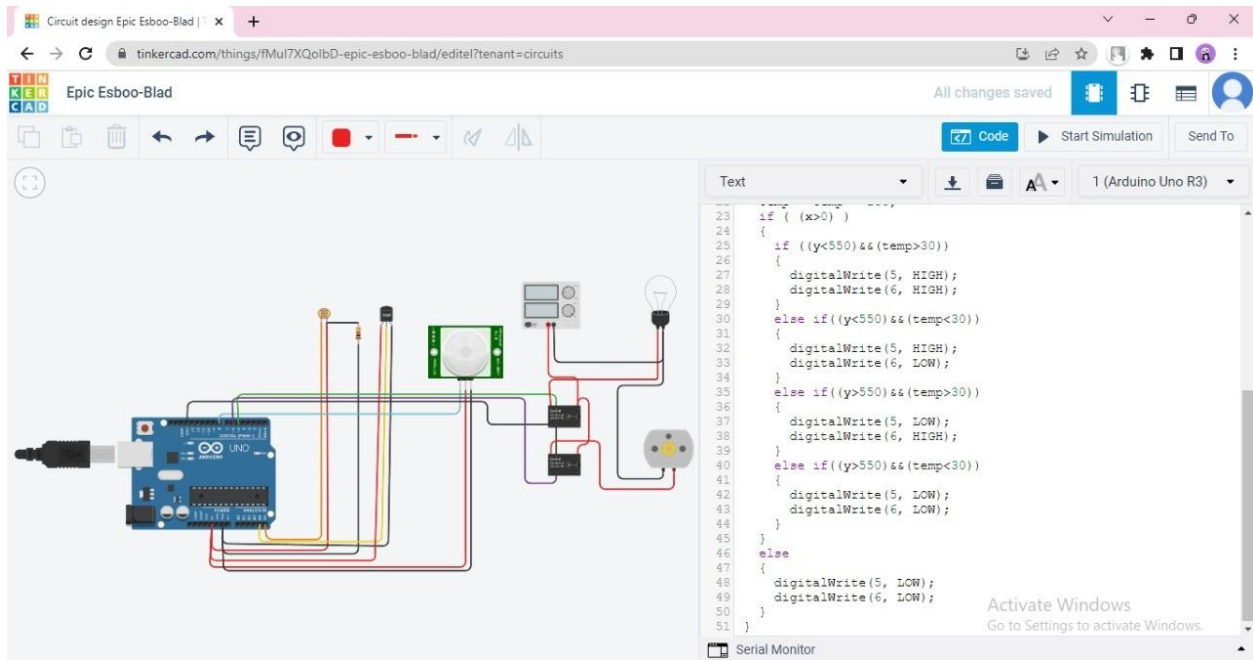
Codes:

```
floatx,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);
  }
}
```