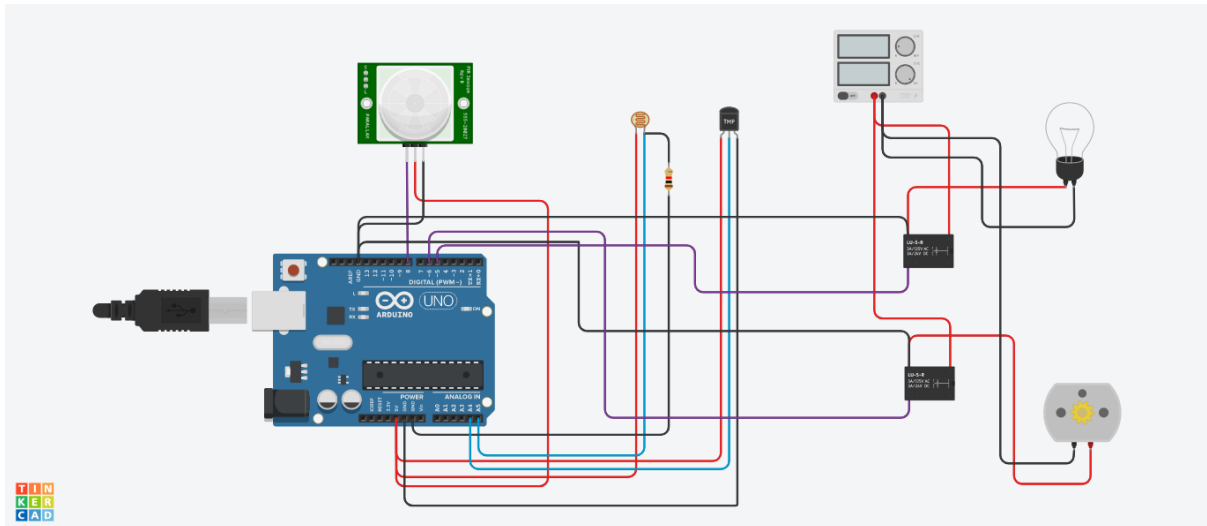


SMART HOME AUTOMATION



Simulator interface showing the circuit and the code for the Arduino Uno R3.

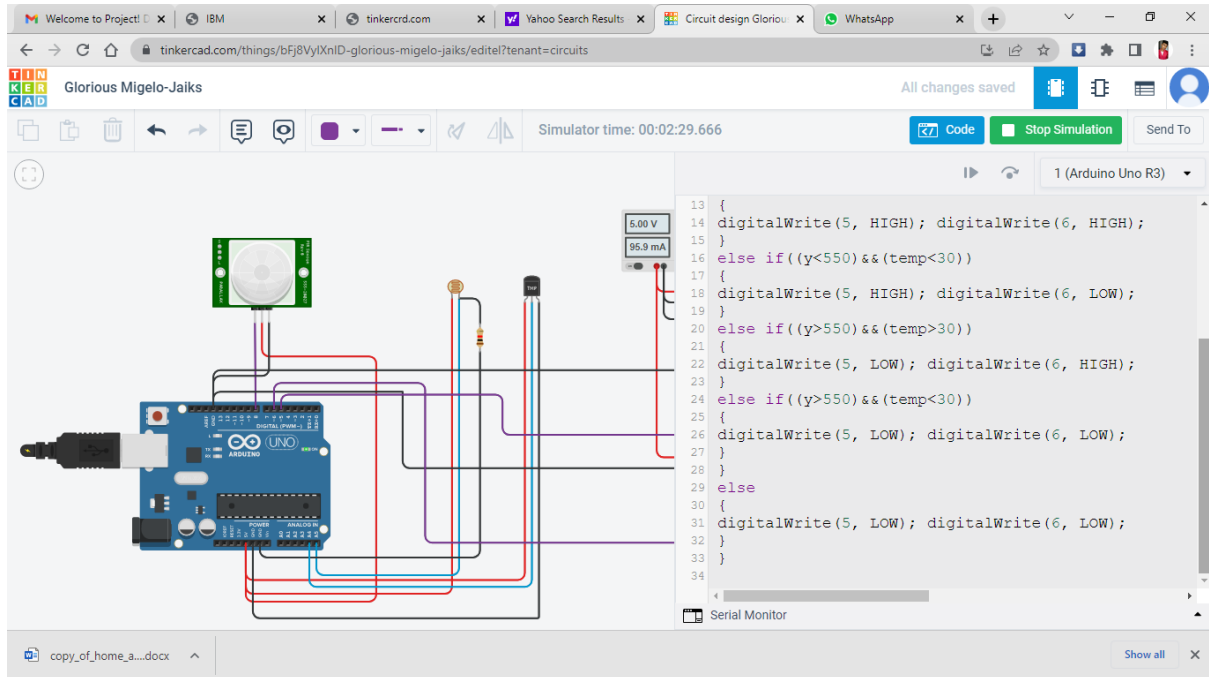
Code:

```
1 float x,y,z,temp; void setup()
2 {
3   pinMode(8, INPUT); pinMode(5, OUTPUT); pinMode(6, OUTPUT);
4   Serial.begin(9600);
5 }
6 void loop()
7 {
8   x= digitalRead(8); y= analogRead(A5); z= analogRead(A0);
9   temp = (double)z / 1024; temp = temp * 5;
10  temp = temp - 0.5; temp = temp * 100; if ( (x>0) )
11  {
12    if ((y<550)&&(temp>30))
13    {
14      digitalWrite(5, HIGH); digitalWrite(6, HIGH);
15    }
16    else if((y<550)&&(temp<30))
17    {
18      digitalWrite(5, HIGH); digitalWrite(6, LOW);
19    }
20    else if((y>550)&&(temp>30))
21    {
22      digitalWrite(5, LOW); digitalWrite(6, HIGH);
23    }
24  }
```

Serial Monitor:

copy_of_home_a....docx

SMART HOME AUTOMATION



CODING

```
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) )
```

SMART HOME AUTOMATION

```
{
  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);
}
}
```