Smart Home Automation

```
float x,y,z,temp;

void setup()

{

  pinMode(9,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;
```
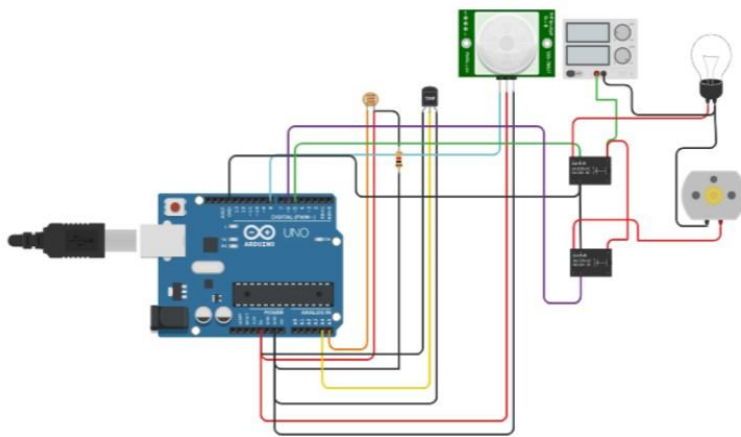
```
temp=temp - 0.5;

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);

  }

 }
}
```