Assignment 1

Assignment Date	17 September 2022
Student Name	Boobalan R
Student Roll Number	611219106008
Maximum Marks	2 Marks

Question:

Build a Smart home Automation Using Sensor

Circuit :
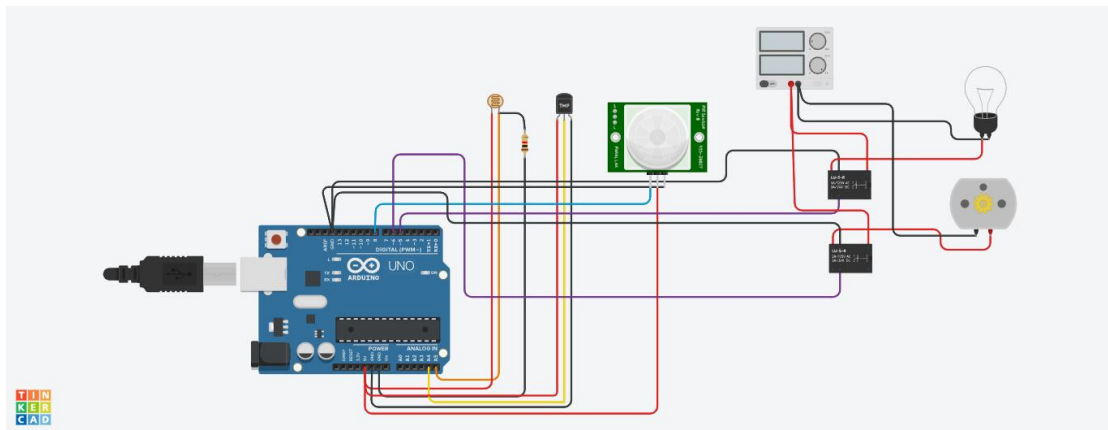
Code:

```
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);
}
}
```