ASSIGNMENT – 1

SMART HOME AUTOMATION

Assignment Date	17 September 2022
Student Name	Kishore R
Student Roll Number	212219040062
Maximum Marks	2 Marks

CIRCUIT DIAGRAM:
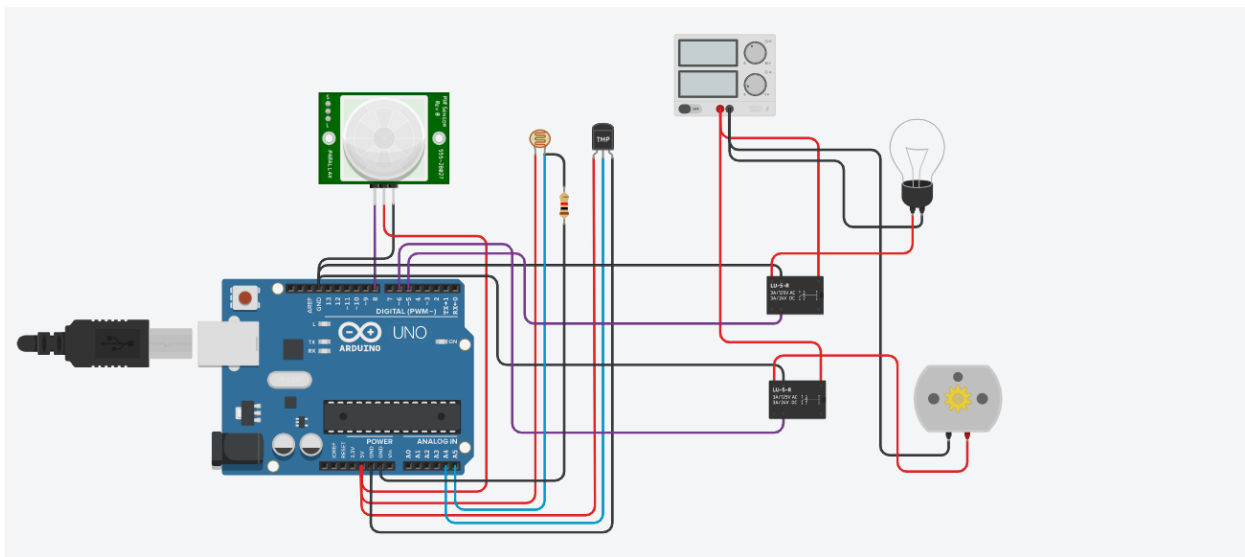
CODE:

```
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);
```

```cpp
}
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);
}
}
```