SMART HOME AUTOMATION USING TINKERCAD

CIRCUIT DESIGN:
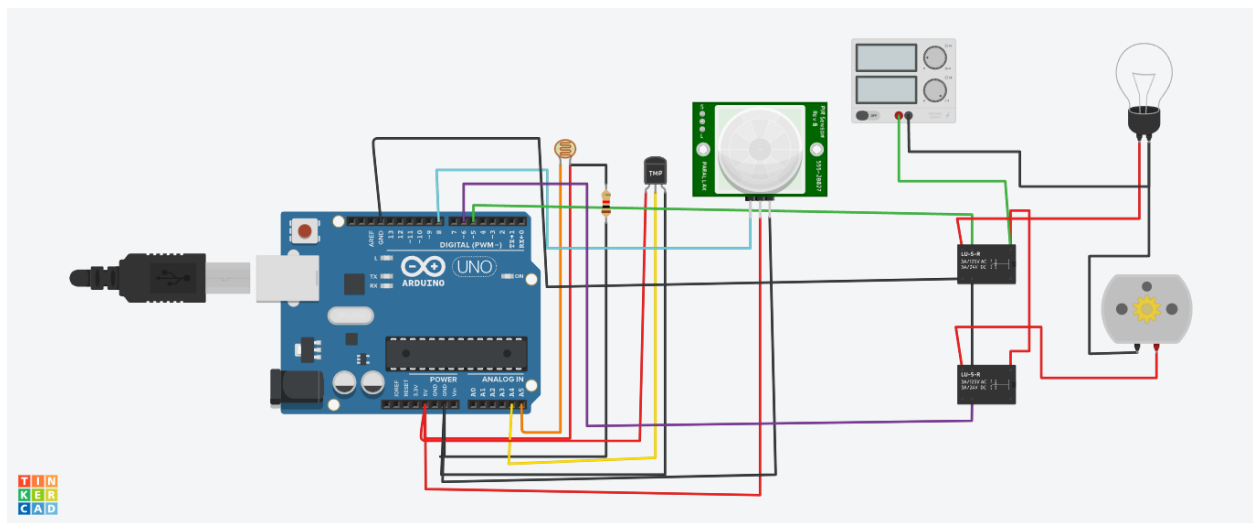
CIRCUIT CODE:

```
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);
  }
}
```