

ASSIGNMENT 1

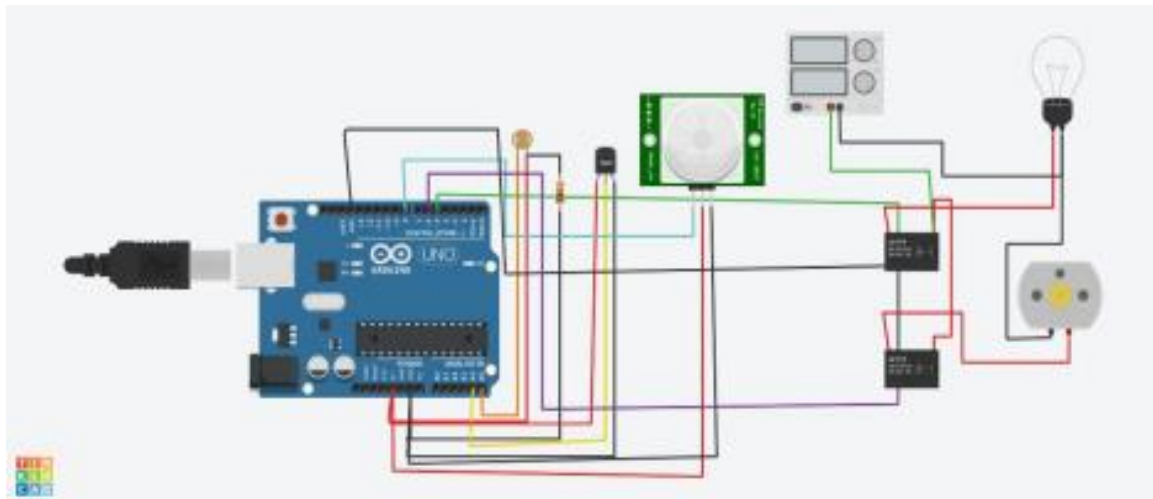
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SMART HOME AUTOMATION:

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,LOW);  
}  
}  
else  
{  
    digitalWrite(5,LOW);  
    digitalWrite(6,LOW);  
}  
}
```

