

ASSIGNMENT 1

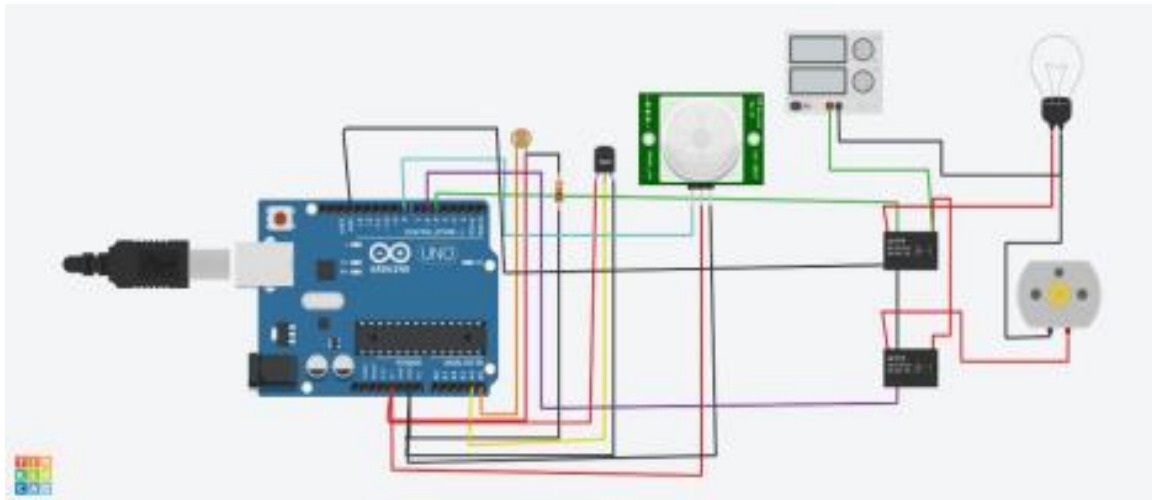
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SMART HOME AUTOMATION:

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);
}
}
```

