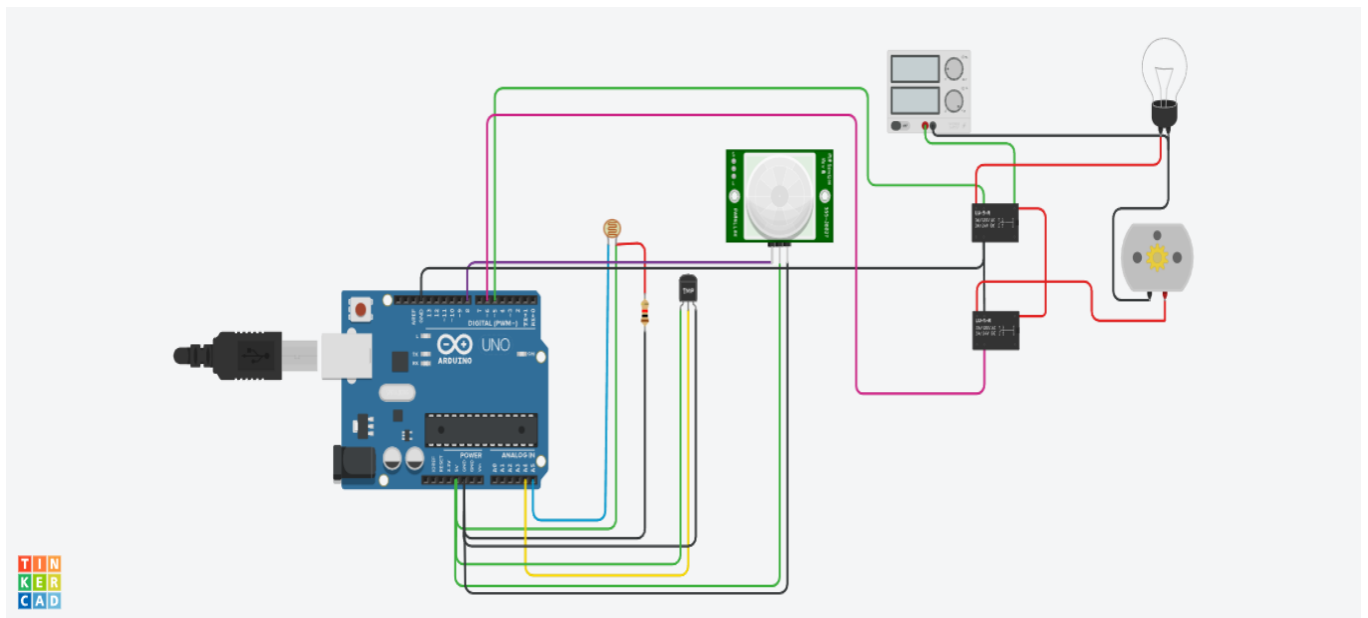


# SMART HOME

## COMPONENTS USED:

- Arduino
- PIR sensor
- DC motor
- Light bulb
- Temperature sensor
- Photoresistor
- Relaly

## CIRCUIT DIAGRAM:



## CODE:

```
float signal,terminal1,vout,temp;

void setup()

{
```

```
pinMode(8,INPUT);  
pinMode(A5,INPUT);  
pinMode(A4,INPUT);  
pinMode(5,OUTPUT);  
pinMode(6,OUTPUT);  
Serial.begin(9600);  
}  
void loop()  
{  
    signal=digitalRead(8);  
    terminal1=analogRead(A5);  
    vout=analogRead(A4);  
    Serial.println(signal);  
    delay(2000);  
    Serial.println(terminal1);  
    delay(2000);  
    Serial.println(vout);  
    delay(2000);  
    temp=(double)vout/1024;  
    temp=temp*5;  
    temp=temp-0.5;  
    temp=temp*100;
```

```
if(signal>0)
{
    if((terminal1<550)&&(temp>30))
    {
        digitalWrite(5,HIGH);
        digitalWrite(6,HIGH);
    }
    else if((terminal1<550)&&(temp<30))
    {
        digitalWrite(5,HIGH);
        digitalWrite(6,LOW);
    }
    else if((terminal1>550)&&(temp>30))
    {
        digitalWrite(5,LOW);
        digitalWrite(6,HIGH);
    }
    else if((terminal1>550)&&(temp<30))
    {
        digitalWrite(5,LOW);
        digitalWrite(6,LOW);
    }
}
```

```
}
```

```
else
```

```
{
```

```
    digitalWrite(5,LOW);
```

```
    digitalWrite(6,LOW);
```

```
}
```

```
}
```

## SIMULATION:

