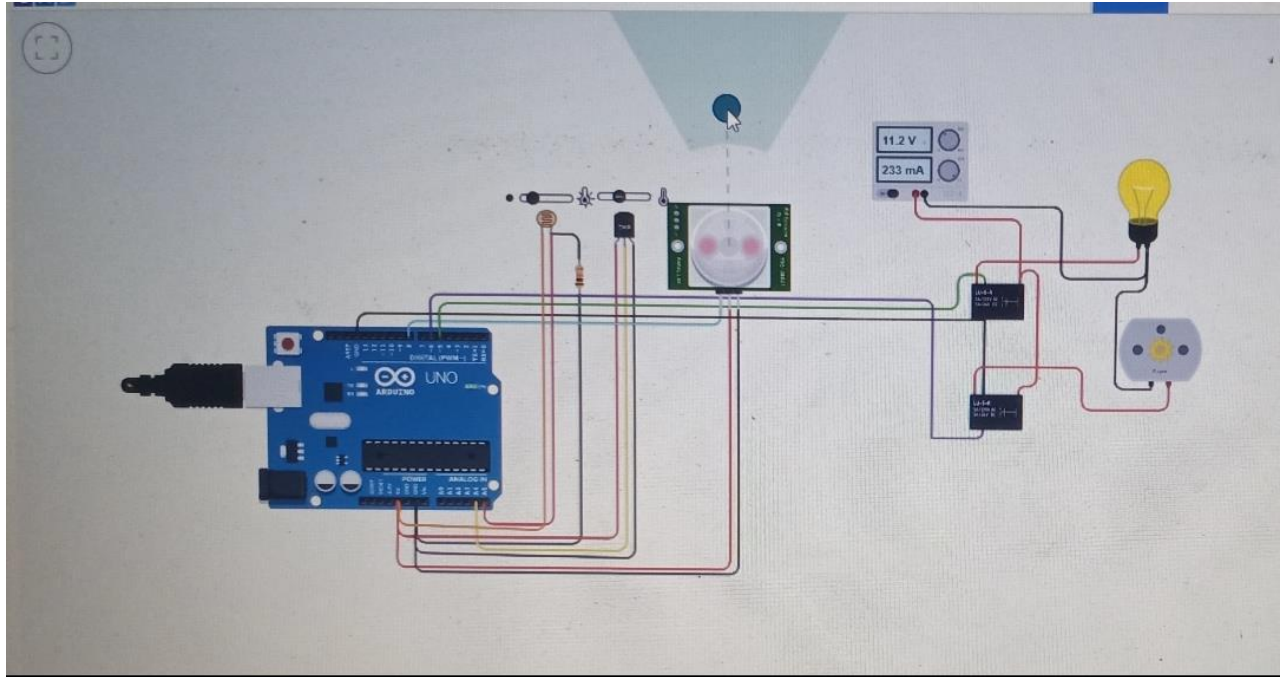


Assignment: Make a smart home with all the sensors you learned in tinkercad.

```
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);
  }
}
```

Assignment: Make a smart home with all the sensors you learned in tinkercad.



TINKERCAD LINK:

<https://www.tinkercad.com/things/dQ5HQywgxoz>

Simulator time: 00:00:00.685

Code Stop Simulation Send To

1 (Arduino Uno R3)

```
25 if ((y<550)&&(temp>30))
26 {
27   digitalWrite(5, HIGH);
28   digitalWrite(6, HIGH);
29 }
30 else if ((y<550)&&(temp<30))
31 {
32   digitalWrite(5, HIGH);
33   digitalWrite(6, LOW);
34 }
35 else if ((y>550)&&(temp>30))
36 {
37   digitalWrite(5, LOW);
38   digitalWrite(6, HIGH);
39 }
40 else if ((y>550)&&(temp<30))
41 {
42   digitalWrite(5, LOW);
43   digitalWrite(6, LOW);
44 }
```

Serial Monitor

```
6.00
153.00
1.00
6.00
153.00
1.00
6.00
153.00
```

Send Clear