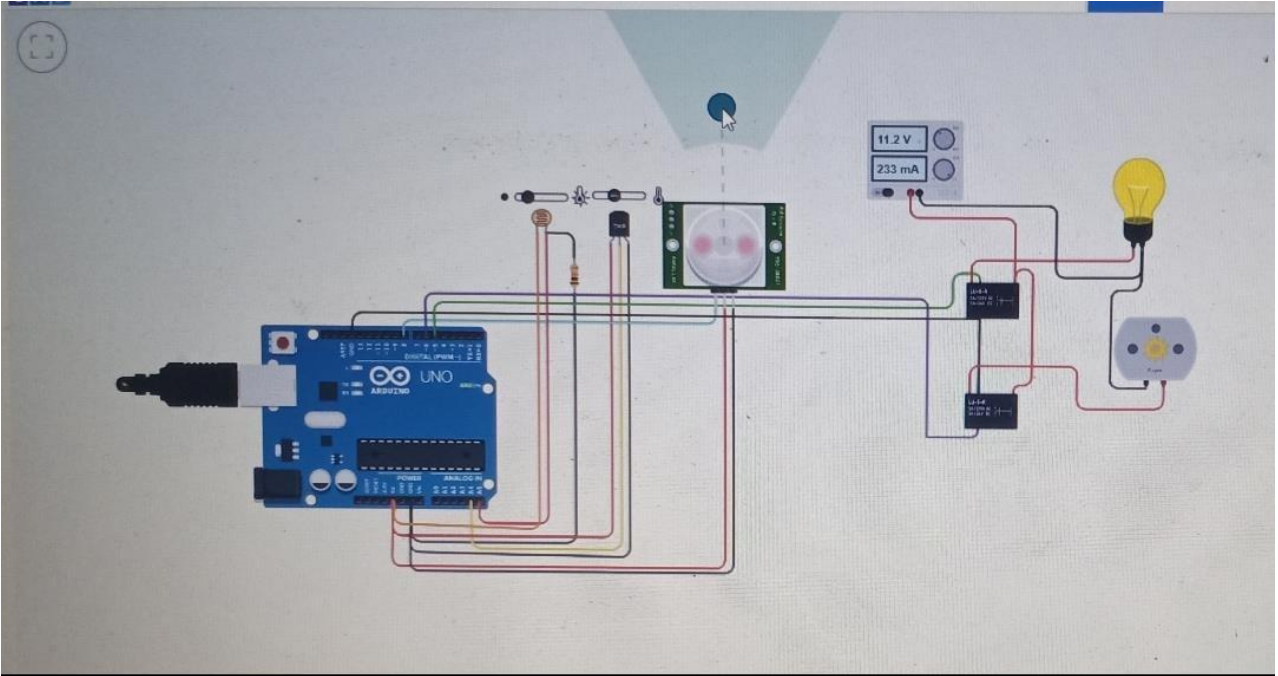


ASSIGNMENT : Make a smart home with all the sensors you Learned in tinkercad.

```
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);
  }
}
```



TINKERCAD: <https://www.tinkercad.com/things/26S3ILYi6g5>

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