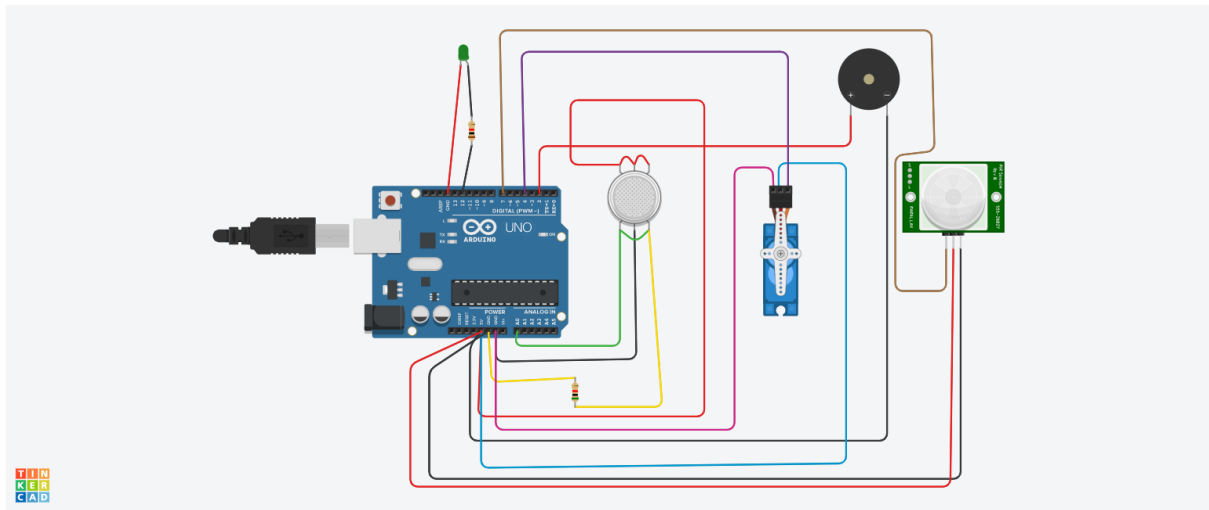SMART HOME

Code:

```cpp
// C++ code
//
#include<Servo.h>
Servo s;
void setup()
{
  //while people active in the room the light will glow using pir sensor
  pinMode(12,OUTPUT);
  //sense the gas in kitchen using gas sensor
  pinMode(A0,OUTPUT);
  //alarm while detect the gas
  pinMode(2,OUTPUT);
  //pir sensor
  pinMode(7,INPUT);
//servo motor open the doors and window while gas leak
  s.attach(4);
  Serial.begin(9600);

}

void loop()
{
  int a=analogRead(A0);
  int light=digitalRead(7);
  Serial.println(light);
  if(a>10){
```

```
    tone(2,300);
    tone(2,360);
    tone(2,101);
    s.write(90);

  }
  else{
    digitalWrite(12,LOW);
    noTone(2);
    s.write(0);
  }
  if(light)
    digitalWrite(12,HIGH);
  else
    digitalWrite(12,LOW);
  delay(100);
}
```

Assignment link:
https://www.tinkercad.com/things/eyDt0RhLHQr-assignment/editel