

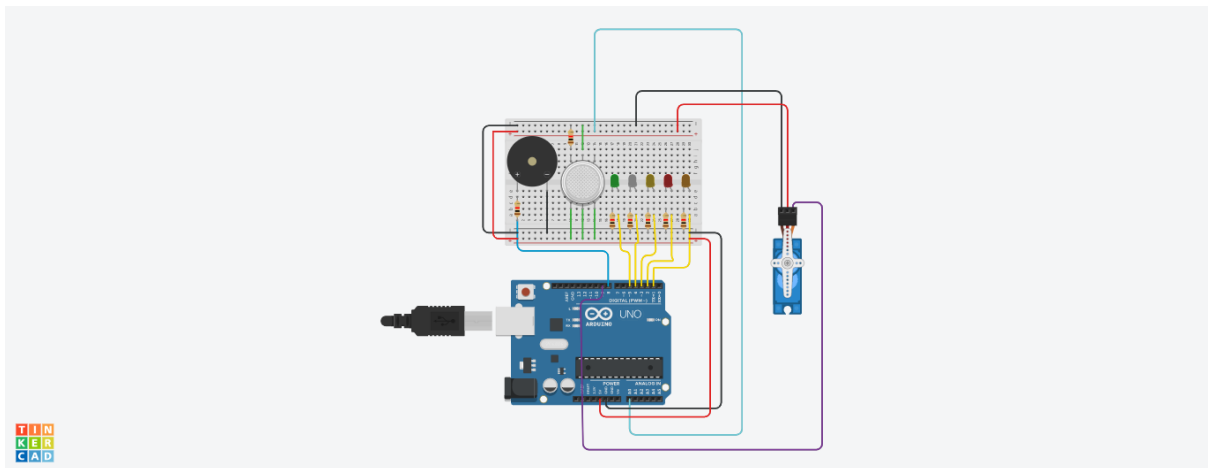
ASSIGNMENT- 1

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OBJECTIVE:-

Built a smart home in tinkercad. Using at least 2 sensors, led, buzzer in a circuit. Stimulate in a single code



CODE:-

```
#include <Servo.h>Servomyservo;

#define ledR2 5

#define ledR1 4

#define ledY2 3

#define ledY1 2

#define ledG1 1

#define gas A0

#define buzzer 8

#define serv 9

void setup()

{

pinMode(ledR1, OUTPUT);

pinMode(ledR2, OUTPUT);
```

```

pinMode(ledY1, OUTPUT);
pinMode(ledY2, OUTPUT);
pinMode(ledG1, OUTPUT);
pinMode(buzzer,OUTPUT);
myservo.attach(serv);
pinMode(gas, INPUT);
Serial.begin(9600);
}

void loop()
{
int read= analogRead(gas);
int val= map(read,80,380,0,100);
Serial.println(val);
int servo= map(read,80,380,0,180);
myservo.write(servo)
digitalWrite(ledG1, HIGH);
if(val>=20 &&
val<40){ digitalWrite(ledY
1,HIGH);
}
if(val>=40 &&
val<60){ digitalWrite(ledY2, HIGH);
}
if(val>=60 &&
val<80){ digitalWrite(ledR1, HIGH);
}
if(val>=80){ digitalWrite(led
G1, HIGH);

```

```
digitalWrite(ledY1, HIGH);  
digitalWrite(ledY2, HIGH);  
digitalWrite(ledR1, HIGH);  
digitalWrite(ledR2, HIGH);  
delay(500);  
digitalWrite(ledG1, LOW);  
digitalWrite(ledY1, LOW);  
digitalWrite(ledY2, LOW);  
digitalWrite(ledR1, LOW);  
digitalWrite(ledR2, LOW);  
delay(1000)  
tone(buzzer,1000,500);  
}  
If (val<80){  
noTone(buzzer);  
}  
}
```