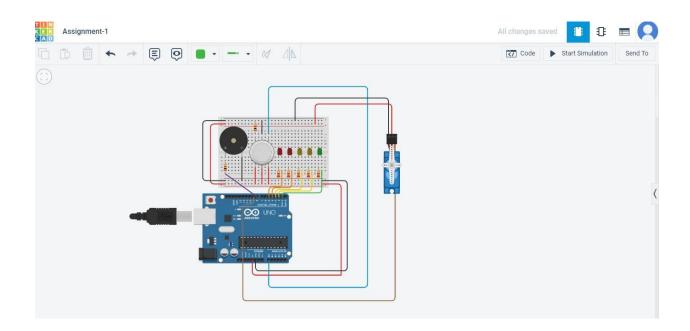
ASSIGNMENT-1(NALAIYA THIRAN)

SMART HOME DESIGN USING TINKERCAD

TEAM MEMBER-1: M.ABINEETHA

REGISTER NUMBER: 710719106004

SCHEMATIC:-



CODING:

#include <Servo.h>

Servo myservo;

#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 \ge 20 \&\& val < 40)
digitalWrite(ledY1,HIGH);
}
if(val > = 40 \&\& val < 60){
digitalWrite(ledY2,HIGH);
}
if(val>=60 && val<80){
digitalWrite(ledR1,HIGH);
}
 if(val > = 80){
digitalWrite(ledG1,
                      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);
}
}</pre>
```