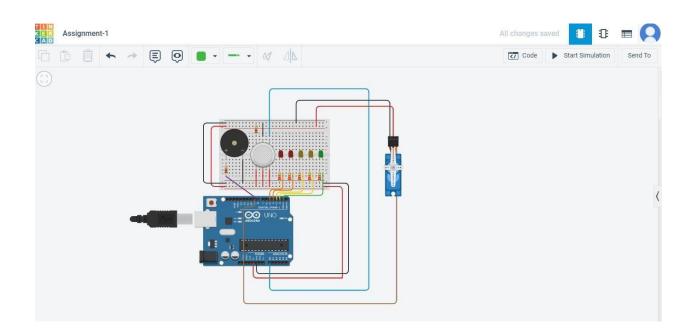
ASSIGNMENT-1(NALAIYA THIRAN)

NAME: KRISH S

ROLL NUMBER: 1919106045

SCHEMATIC:-



CODE:

#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>
```