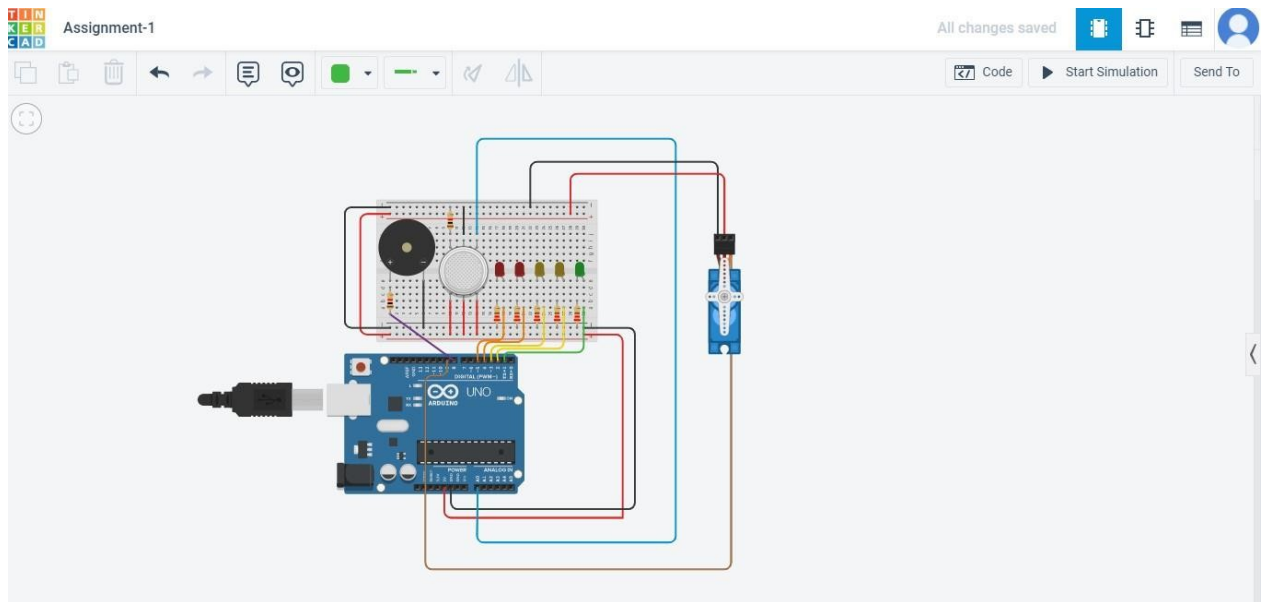


ASSIGNMENT-1(NALAIYA THIRAN)

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
```



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```
#define gas A0
#define buzzer 8
#define serv
9void 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);
```



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```
    delay(1000)
    tone(buzzer,1000,500);
}
if
(val<80){ noTon
e(buzzer);
}
}
```

