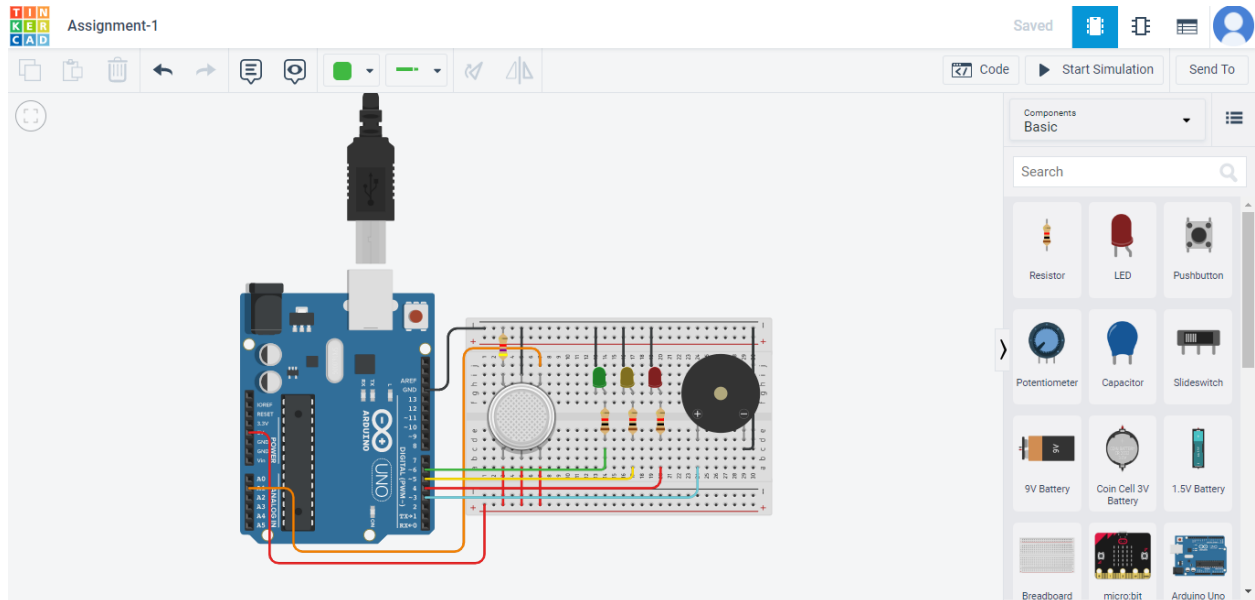


ASSIGNMENT-1(NALAIYA THIRAN)

TEAM LEADER : S.KRITHIK GOKUL

REGISTER NUMBER:811519106071

SCHEMATIC(CIRCUIT DIAGRAM)



Code:-

```
int const PIN_SGAS = A1;

int LED_green = 6;

int LED_yellow = 5;

int LED_red = 4;

int buzzer = 3;

void setup(){

    pinMode(LED_green, OUTPUT);

    pinMode(LED_yellow, OUTPUT);

    pinMode(LED_red, OUTPUT);

    pinMode(buzzer, OUTPUT);

    Serial.begin(9600);
```

```
}  
  
void loop(){  
  
    int value = analogRead(PIN_SGAS);  
  
    value = map(value, 300, 750, 0, 100);  
  
    if(value < 30){  
  
        digitalWrite(LED_green, HIGH);  
  
        digitalWrite(LED_yellow, LOW );  
  
        digitalWrite(LED_red, LOW );  
  
        digitalWrite(buzzer, LOW );  
  
    }  
  
    else if(value >= 30 & value < 50){  
  
        digitalWrite(LED_yellow, HIGH );  
  
        digitalWrite(LED_red, LOW );  
  
        digitalWrite(LED_green, LOW );  
  
        digitalWrite(buzzer, LOW );  
  
    }  
  
    else {  
  
        digitalWrite(LED_red, HIGH );  
  
        digitalWrite(LED_yellow, LOW );  
  
        digitalWrite(LED_green, LOW );  
  
        tone(buzzer, 500);  
  
        delay(300);  
  
        noTone(buzzer);  
  
        delay(50);  
  
    }  
  
    delay(250);} }
```

