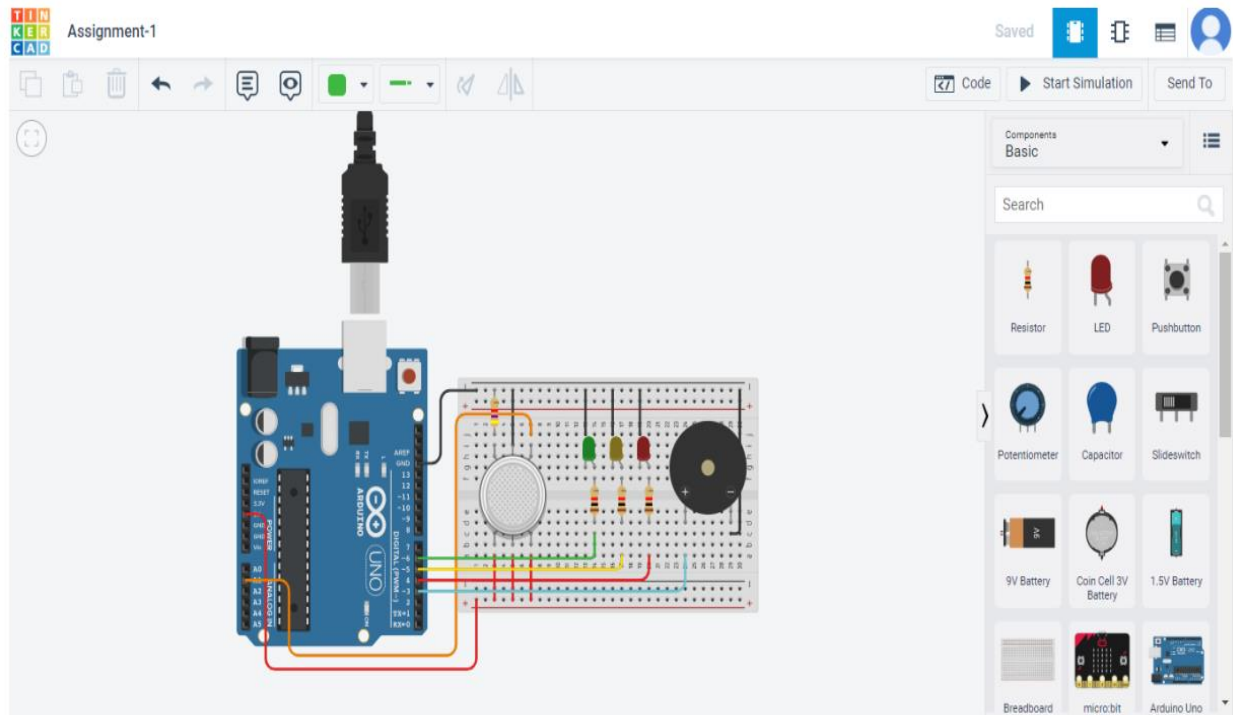


ASSIGNMENT-1(NALAIYA THIRAN)

TEAM LEADER : MEHA M

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SCHEMATIC (CIRCUIT DIAGRAM):



```
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);}
```