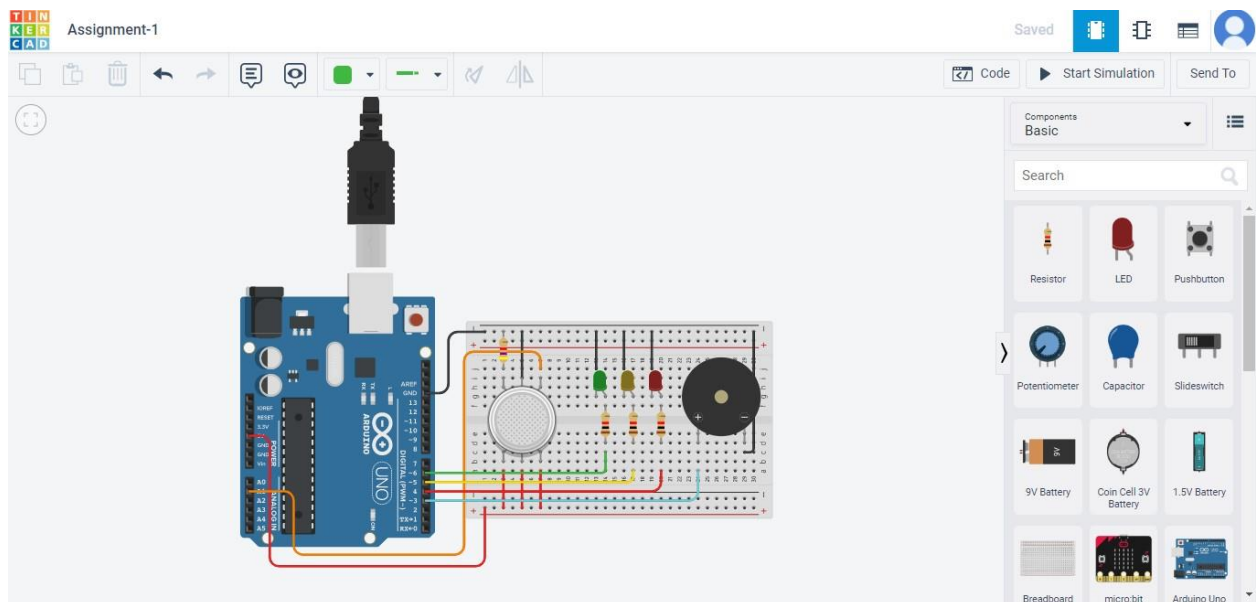


ASSIGNMENT-1(NALAIYA THIRAN)

SMART HOME DESIGN USING TINKERCAD

Circuit:



CODING:

```
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
);
}
els
e
{
digitalWrite(LED_red, HIGH );
digitalWrite(LED_yellow, LOW
); digitalWrite(LED_green,
LOW ); tone(buzzer, 500);
delay(300);
noTone(buzzer); delay(50);
}
delay(250);
}

```