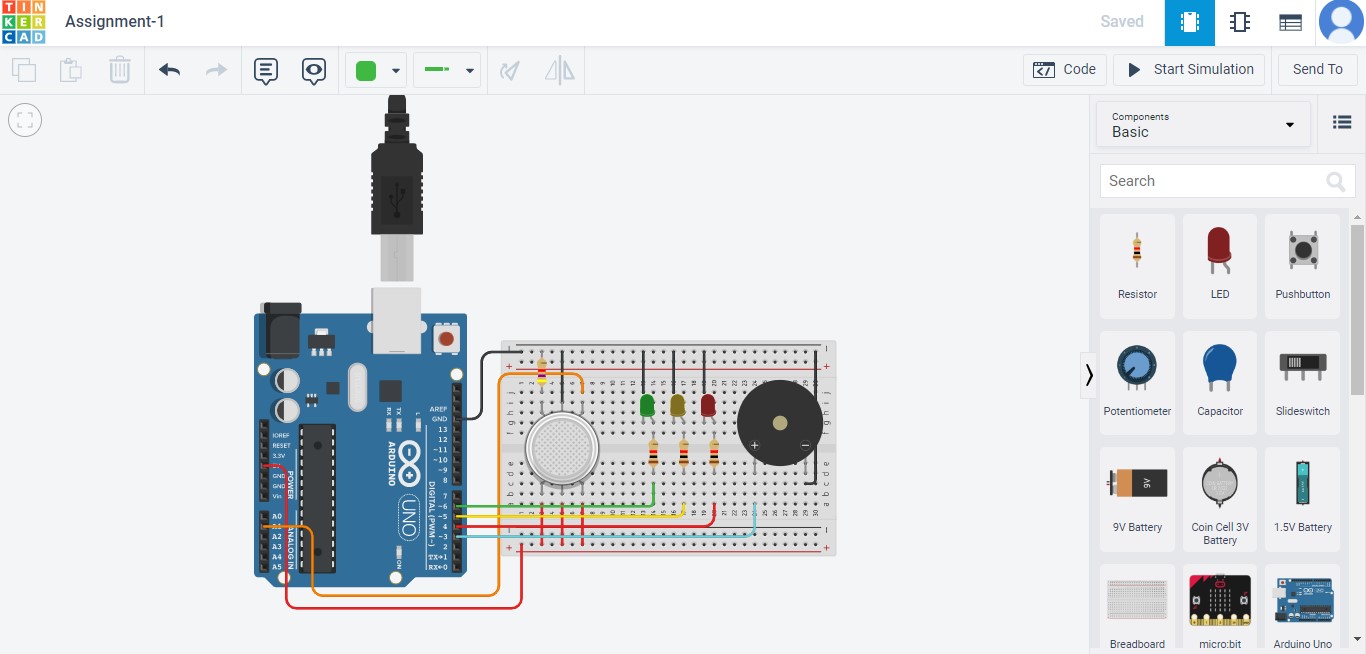
**ASSIGNMENT-1(NALAIYA THIRAN)**

**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 );

} else {

digitalWrite(LED\_red, HIGH ); digitalWrite(LED\_yellow, LOW ); digitalWrite(LED\_green, LOW ); tone(buzzer, 500); delay(300); noTone(buzzer); delay(50);

}

delay(250);

}