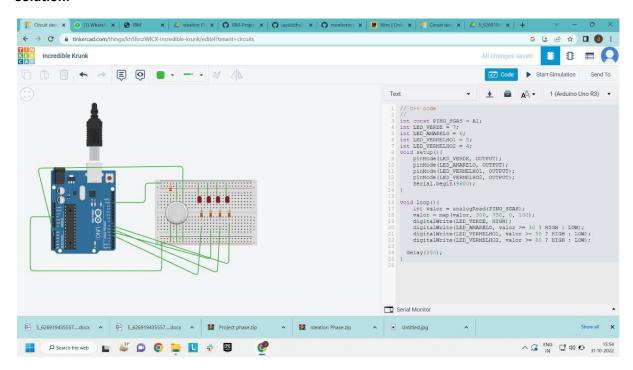
## Assignment -1

Assignment Date	08 October 2022
Student Name	Jai Shiddharth Essaki
Student Roll Number	7179KCTKCTKCTKCTKCTKCT19BCS

## Question:

Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

## Solution:



```
// C++ code
//
int const PINO_SGAS = A1;
int LED_VERDE = 7;
int LED_AMARELO = 6;
int LED_VERMELHO1 = 5;
int LED_VERMELHO2 = 4;
void setup(){
     pinMode(LED_VERDE, OUTPUT);
     pinMode(LED_AMARELO, OUTPUT);
```

```
pinMode(LED_VERMELHO1, OUTPUT);
pinMode(LED_VERMELHO2, OUTPUT);
Serial.begin(9600);
}

void loop(){
  int valor = analogRead(PINO_SGAS);
  valor = map(valor, 300, 750, 0, 100);
  digitalWrite(LED_VERDE, HIGH);
       digitalWrite(LED_AMARELO, valor >= 30 ? HIGH : LOW);
  digitalWrite(LED_VERMELHO1, valor >= 50 ? HIGH : LOW);
  digitalWrite(LED_VERMELHO2, valor >= 80 ? HIGH : LOW);
  delay(250);
}
```