

**Assignment -1**  
Python Programming

Assignment Date	13 September 2022
Student Name	Meha M
Student Roll Number	611219106044
Maximum Marks	2 Marks

**Question-1:**

Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit.

**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);}

```



