

Assignment -1
Python Programming

Assignment Date	13 September 2022
Student Name	Arthi V
Student Roll Number	611219106003
Maximum Marks	2 Marks

Question-1:

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

Code:

```
int ledRed = 3;

int ledGreen = 7;

int buzzer = 11;

int LM35 = 2;

void setup()
{
    pinMode(LM35, INPUT);
    pinMode(ledRed, OUTPUT);
    pinMode(ledGreen, OUTPUT);
    pinMode(buzzer, OUTPUT);
    Serial.begin(9600);
}

void loop()
{
    int value = analogRead(LM35);
    int temp = value * 0.48;
    Serial.println(temp);
    if(temp < 20) {
        digitalWrite(ledGreen, HIGH);
        digitalWrite(ledRed, LOW);
        noTone(buzzer);
    } else {
        digitalWrite(ledRed, HIGH);
```

```
digitalWrite(ledGreen, LOW);
```

```
tone(buzzer, 400);
```

```
}
```

```
}
```

