## **ASSIGNMENT-1**

| Date                    | 03 October 2022 |
|-------------------------|-----------------|
| Student Name            | R.MULLAINATHAN  |
| Student Register Number | 820319106302    |
| Maximum Marks           | 2 Marks         |

Make a Smart Home in Tinker cad, using 2+ sensors, LED, Buzzer in single code and circuit.

```
Source code:
int t=2;
int e=3;
void setup()
Serial.begin(9600);
pinMode(t,OUTPUT);
pinMode(e,INPUT);
pinMode(12,OUTPUT);
void loop()
digitalWrite(t,LOW);
digitalWrite(t,HIGH);
delayMicroseconds(10);
digitalWrite(t,LOW);
float dur=pulseIn(e,HIGH);
float dis=(dur*0.0343)/2;
Serial.print("Distance is: ");
Serial.println(dis);
if(dis > = 100)
{ digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
```

if(dis > = 100)

for(int i=0; i<=30000; i=i+10)

```
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
double a= analogRead(A0);
double t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(t);
delay(1000);
if(t>=100)
{
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
if(t>=100)
for(int i=0; i<=30000; i=i+10)
tone(12,i); delay(1000);
noTone(12); delay(1000);
if(t<100)
digitalWrite(8,LOW);
digitalWrite(7,LOW);
}
```

## **CIRCUIT DIAGRAM**

