

## ASSIGNMENT – 01

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Team ID	PNT2022TMID46406
Project Name	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY
Maximum Marks	2 Marks

**Make a Smart Home in Tinkercad, 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: "); S

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:**

