# ASSIGNMENT – 01

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| Team Leader | S.GOBIKA |
| Register Number | 820319106007 |
| Date | 03 October 2022 |
| 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);

}

}