

ASSIGNMENT – 01

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Team ID	PNT2022TMID41135
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:

