

ST.JOSEPH COLLEGE OF ENGINEERING
SRIPERAMBUDUR

Department of Computer Science and Engineering

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

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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: 'l
) ; Serial.println(dis);

if(dis>=100)//(in terms of centimeter)
{
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);

if(dis>=100) for(int i=0;
<=30000;i=i+1 0)
```

```
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);
//LED ON if(t>=100)//(in
terms of celsius)
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}
if(t>=100)
```

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

```
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
```

```
if(t<100)
```

```
digitalWrite(8,LOW);
digitalWrite(7,LOW);
```

OUTPUT:-

