

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: ");  
  Serial.println(dis);  
  
}  
if(dis>=100)//(in terms of centimeter)  
{
```

```

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);
//LED ON
if(t>=100)//(in terms of celsius)
{
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);
}
}

```

OUTPUT:-


