

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:-


