

**ST.JOSEPHCOLLEGE OFENGINEERINGSRIPERAMBU**

**DUR**

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);pin
  Mode(t,OUTPUT);pinM
  ode(e,INPUT);pinMode
  (12,OUTPUT);
}
void loop()
{
  digitalWrite(t,LOW);

  digitalWrite(t,HIGH);delayMicrosec
  onds(10);digitalWrite(t,LOW);
  float
  dur=pulseIn(e,HIGH);float
  dis=(dur*0.0343)/2;Serial.
  print("Distance is:
  ");Serial.println(dis);

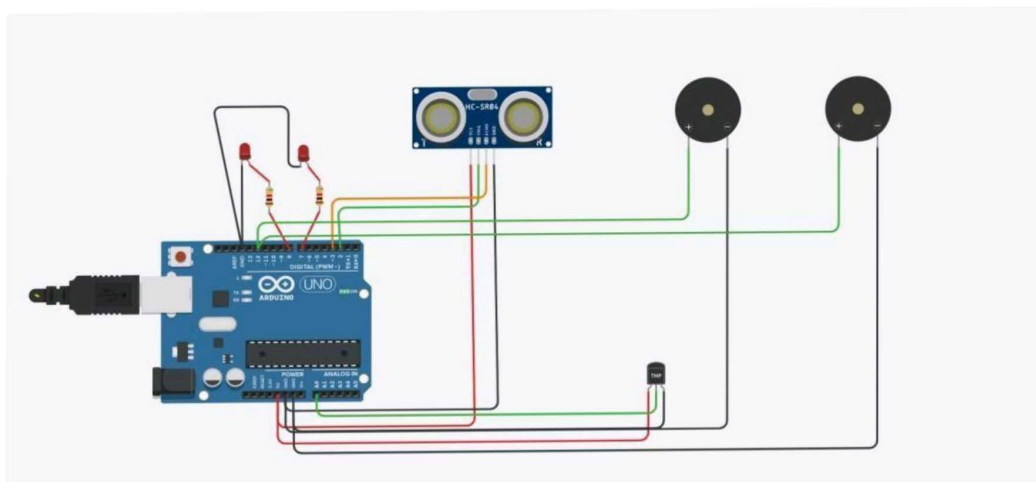
}
if(dis>=100)//(in terms of centimeter)
{
  digitalWrite(8,HIGH);
  digitalWrite(7,HIGH);
}
if(dis>=100)
{
  for(int i=0;i<=30000;i=i+10)
```

```

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)//(intermsofcelsius)
{
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}if(t>=100)
{
for(inti=0;i<=30000;i=i+10)
{
tone(12,i);de
lay(1000);no
Tone(12);del
ay(1000);
}
}
if(t<100)
{
digitalWrite(8,LOW);
digitalWrite(7,LOW);
}
}

```

**OUTPUT:-**



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