

## **ASSIGNMENT 1 – SMART HOME USING IOT**

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### **OBJECTIVE:**

Make a Smart Home in Tinkercad using 2 sensors ,LED ,Buzzer in single code and circuit

### **CODE:**

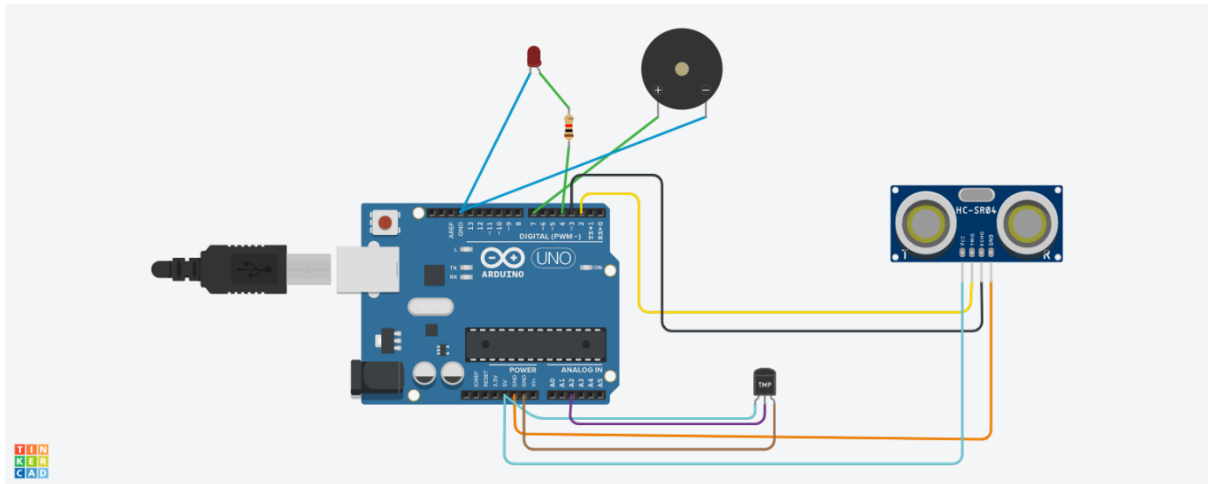
```
int trig=2;
int echo=3;
void setup()
{
  pinMode(trig, OUTPUT);
  pinMode(echo,INPUT);
  Serial.begin(9600);
  pinMode(4,OUTPUT);
  pinMode(7,OUTPUT);
}

void loop()
{
  digitalWrite(trig,LOW);
  digitalWrite(trig,HIGH);
  delayMicroseconds(10);
  digitalWrite(trig,LOW);
  float dur =pulseIn(echo,HIGH);
  float dist=(dur*0.0343)/2;
```

```
Serial.print("distance:");  
Serial.println(dist);  
if(dist>=100)  
{  
    digitalWrite(4,HIGH);  
}  
else  
{  
    digitalWrite(4,LOW);  
}  
double a=analogRead(A2);  
Serial.print("adc value");  
Serial.print(a);  
double v=a/1024;  
double tvolt=v*5;  
Serial.print("temp value voltage:");  
Serial.println(tvolt);  
double o=tvolt-0.5;  
double t=o*100;  
Serial.print("temp is:");  
Serial.println(t);  
if(t>=50)  
{  
    digitalWrite(7,HIGH);  
}  
else
```

```
{  
  digitalWrite(7,LOW);  
}  
}
```

**OUTPUT:**



**Simulation link :** <https://www.tinkercad.com/things/dc61sQ1pK5L-neat-wluff-albar/editel?tenant=circuits>