

OBJECTIVE:

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

CODE:

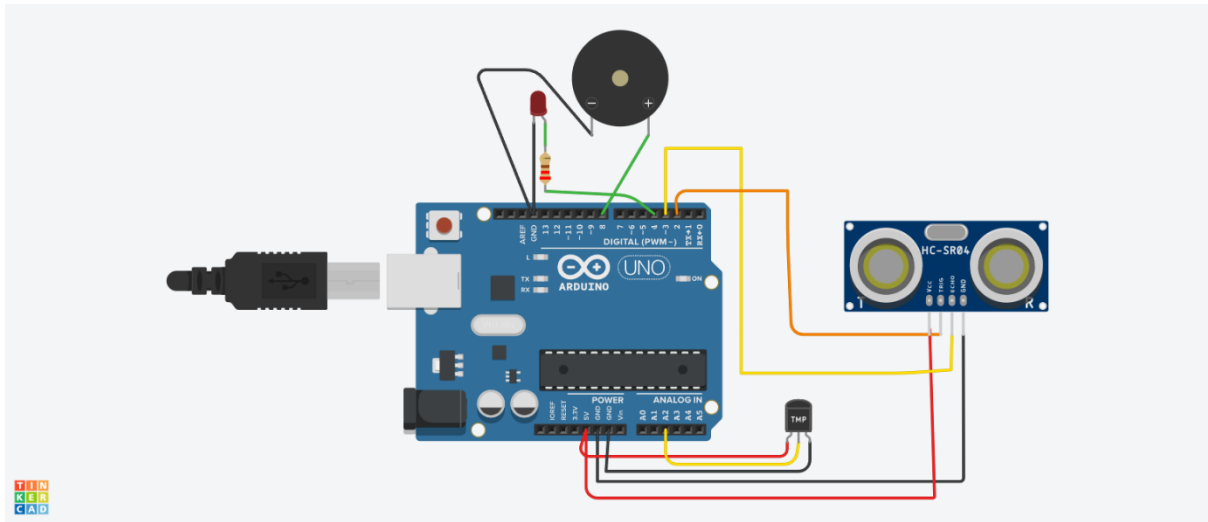
```
int trig=2;
int echo=3;
void setup()
{
  pinMode(trig, OUTPUT);
  pinMode(echo,INPUT);
  Serial.begin(9600);
  pinMode(4,OUTPUT);
  pinMode(8,OUTPUT);
}

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(8,HIGH);  
}  
else  
{  
    digitalWrite(8,LOW);  
}
```

}

OUTPUT:



simulation link :<https://www.tinkercad.com/things/gGagkK0sJSi-fantabulous-elzing/editel>