MAKE A SMART HOME IN TINKERCAD USING 2+ SENSOR , LED BUZZER IN SINGLE CODE AND CIRCUIT.
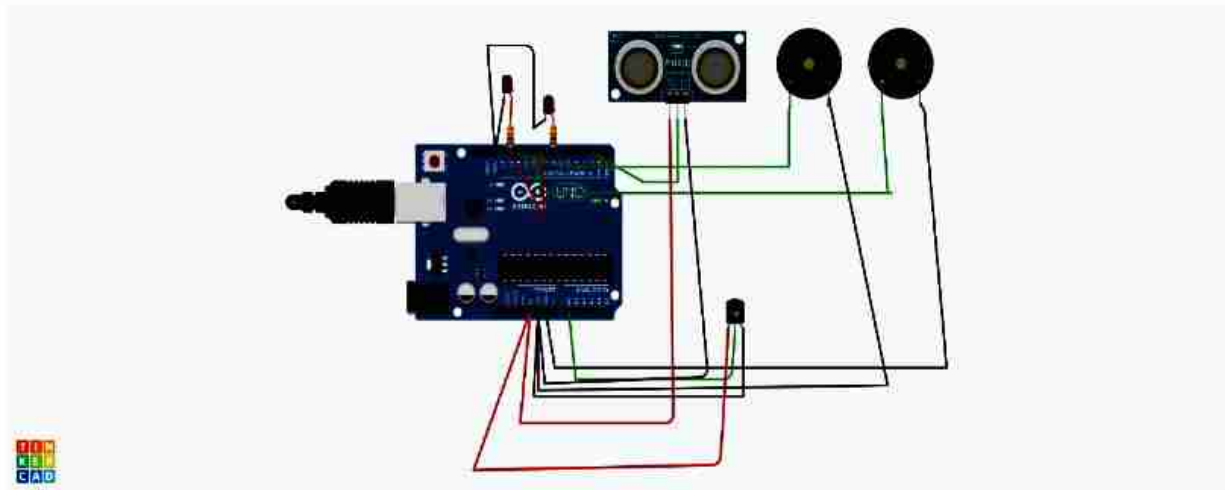


```
void setup()

{

Serial.begin(9600);
```

```
pinMode(t,OUTPUT);

pinMode(e,INPUT);

pinMode(12,OUTPUT);

}


void loop()

{

 //ultrasonic sensor

digitalWrite(t,LOW);

digitalWrite(t,HIGH);

delayMicroseconds(10);

digitalWrite(t,LOW);

float dur=pulseIn(e,HIGH);
```

```arduino
float dis=(dur*0.0343)/2;

Serial.print("Distance is: ");

Serial.println(dis);



//LED ON

if(dis>=100)

 {

  digitalWrite(8,HIGH);

  digitalWrite(7,HIGH);

}



//Buzzer For ultrasonic Sensor
```

```
if(dis>=100)

{

for(int i=0; i<=30000; i=i+10)

{

tone(12,i);

delay(1000);

noTone(12);

delay(1000);

}

}
```

Temperate Sensor

```
double a= analogRead(A0);

double t=(((a/1024)*5)-0.5)*100;
```

```arduino
Serial.print("Temp Value: ");

Serial.println(t);

delay(1000);



//LED ON

if(t>=100)

{

 digitalWrite(8,HIGH);

digitalWrite(7,HIGH);

}



//Buzzer for Temperature Sensor
```

```
if(t>=100)

{

for(int i=0; i<=30000; i=i+10)

{
  tone(12,i);

delay(1000);

noTone(12);

  delay(1000);

}

}


//LED OFF

if(t<100)
```

```
{

  digitalWrite(8,LOW);


  digitalWrite(7,LOW);


}


}
```