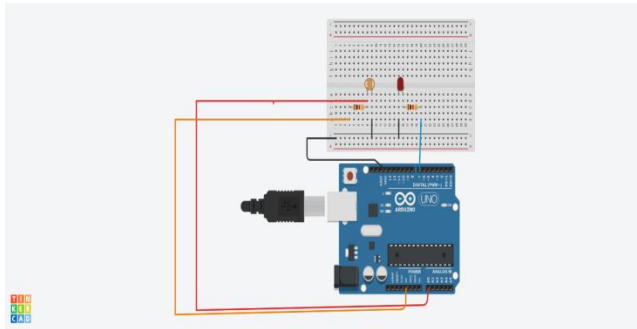# Make a smart home with 2-3 sensors,LED,Buzzer in single code and connections

CONNECTON:

CODE:

```
int trigger_Pin = 2;

int echo_Pin = 3;

int buzzer_Pin = 10;

int time;

int distance;

void setup()

{

    Serial.begin (9600);

    pinMode (trigger_Pin, OUTPUT);

    pinMode (echo_Pin, INPUT);

    pinMode (buzzer_Pin, OUTPUT);

}

void loop()

{

  digitalWrite (trigger_Pin, HIGH);

  delayMicroseconds (10);
```

```
digitalWrite (trigger_Pin, LOW);

time = pulseIn (echo_Pin, HIGH);

distance = (time*0.034) / 2;


if (distance <= 10)

  {

    Serial.println (" Door Open ");

    Serial.print (" Distance=  ");

    Serial.println (distance);

    digitalWrite (buzzer_Pin, HIGH);

    delay (500);

  }

  else

  {

    Serial.println (" Door Closed ");

    Serial.print (" Distance= ");

    Serial.println (distance);

    digitalWrite (buzzer_Pin, LOW);

    delay (500);

  }

}
```