LINK:-

https://wokwi.com/projects/364529075100480513

CODE:

```
#include <LiquidCrystal I2C.h>
#define LIGHT SENSOR PIN 33
#define LED PIN
                          13
#define buzzer
                         27
#define echoPin 4
#define trigPin 19
long duration;
int distance;
LiquidCrystal_I2C LCD = LiquidCrystal_I2C(0x27, 16, 2);
void setup() {
 Serial.begin(115200);
 pinMode(LED_PIN, OUTPUT);
 pinMode(trigPin, OUTPUT);
 pinMode(echoPin, INPUT);
  pinMode(buzzer, OUTPUT);
 LCD.init();
 LCD.backlight();
 LCD.setCursor(1, 0);
 LCD.print("IOT SMART HOME");
 LCD.setCursor(3, 1);
 LCD.print("...");
 delay(5000);
 LCD.clear();
}
void loop() {
 digitalWrite(trigPin, LOW);
 delayMicroseconds(2);
 digitalWrite(trigPin, HIGH);
 delayMicroseconds(10);
 digitalWrite(trigPin, LOW);
 duration = pulseIn(echoPin, HIGH);
 distance = duration * 0.034 / 2;
 int LDRValue = analogRead(LIGHT_SENSOR_PIN);
 if (LDRValue < 600)</pre>
    digitalWrite(LED_PIN, HIGH);
 else
    digitalWrite(LED_PIN, LOW);
   if (distance< 200)</pre>
```

```
digitalWrite(buzzer, HIGH);
  else
   digitalWrite(buzzer, LOW);
   LCD.setCursor(0,0);
   LCD.print("Distance: ");
   LCD.print(distance);
   LCD.println(" cm");
   LCD.setCursor(0,1);
  LCD.print("LDRValue: ");
  LCD.println(LDRValue);
   Serial.print("Distance: ");
  Serial.print(distance);
   Serial.println(" cm");
   Serial.print("LDRValue: ");
   Serial.println(LDRValue);
}
```

CIRCUIT DIAGRAM:

