

ASSIGNMENT-1

BUILD SMART HOME APPLIANCES IN WOKWO WITH TWO SENSORS LED AND BUZZER

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Assignment Link In wokwi: <https://wokwi.com/projects/363783378032132097>

```
#define trigerPin 12
#define echoPin 13
#define ledPin 2
#define bulbPin 3
#define speakerPin 10
#define pitch 262
#define inputPin 11

double duration, distance;

int pirstate = LOW;
int val = 0;

void setup() {
  Serial.begin(9600);
  pinMode(trigerPin,OUTPUT);
  pinMode(echoPin,INPUT);
  pinMode(bulbPin,OUTPUT);
  pinMode(ledPin,OUTPUT);
  pinMode(inputPin, INPUT);
  pinMode(speakerPin,OUTPUT);
}
```

```

void loop() {
    digitalWrite(trigerPin,LOW);
    delayMicroseconds(2);
    digitalWrite(trigerPin,HIGH);
    delayMicroseconds(10);
    digitalWrite(trigerPin,LOW);
    delayMicroseconds(2);
    duration=pulseIn(echoPin,HIGH);
    distance=(duration/2)*0.0343;
    if(distance<200){
        digitalWrite(ledPin,HIGH);
        tone(speakerPin,pitch);
        delay(300);
        digitalWrite(ledPin, LOW);
        noTone(speakerPin);
        delay(300);
    }
    else{
        digitalWrite(ledPin, LOW);
        noTone(speakerPin);
    }
    val = digitalRead(inputPin);
    if(val == HIGH){
        digitalWrite(bulbPin, HIGH);
        delay(500);
        digitalWrite(bulbPin, LOW);
        delay(500);
        if(pirstate == LOW){
            pirstate = HIGH;
        }
    }
    else{
        digitalWrite(bulbPin, LOW);
        if(pirstate == HIGH){
            pirstate = LOW;
        }
    }
}
}

```

