

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/363762699835972609>

```
#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;
    }
}
}
}

```

