IOT ASSIGNMENT-1 SMART HOME IN WOKWI

PROGRAM:

```
#include <Servo.h>
Servo myservo;
int pos=0;
int ledPin=12;
int inputPin=2;
int pirState=LOW;
int val=0;
int buzzer = 10;
void setup() {
 pinMode(ledPin, OUTPUT);
 pinMode(inputPin, INPUT);
 myservo.attach(9);
pinMode(buzzer, OUTPUT);
 Serial.begin(9600);
}
void loop() {
 val = digitalRead(inputPin);
 if (val == HIGH) {
  digitalWrite(ledPin, HIGH);
  tone(buzzer, 1000);
  if (pirState == LOW) {
   pirState = HIGH;
```

```
Serial.println("Motion detected!");
  for (pos = 0; pos <= 180; pos += 1) {
 myservo.write(pos);
 delay(15);
for (pos = 180; pos >= 0; pos -= 1) {
 myservo.write(pos);
 delay(15);
} else {
 digitalWrite(ledPin, LOW);
 if (pirState == HIGH){
  pirState = LOW;
  Serial.println("Motion ended!");
delay(1000);
noTone(buzzer);
delay(1000);
```

CONNECTIONS:

