

ASSIGNMENT-1

WOKWI SHARE LINK: -

<https://wokwi.com/projects/362903684688428033>

CODE: -

```
/*  
PIR sensor tester  
*/  
int ledPin = 13;  
int inputPin = 2;  
int pirState = LOW;  
int val = 0;  
void setup() {  
  pinMode(ledPin, OUTPUT);  
  pinMode(inputPin, INPUT);  
  Serial.begin(9600);  
}  
void loop() {  
  val = digitalRead(inputPin);  
  if (val == HIGH) {  
    digitalWrite(ledPin, HIGH);  
    if (pirState == LOW) {  
      Serial.println("Motion detected!");  
      pirState = HIGH;  
    }  
  } else {  
    digitalWrite(ledPin, LOW);  
    if (pirState == HIGH) {  
      Serial.println("Motion ended!");  
      pirState = LOW;  
    }  
  }  
}
```

SCREENSHOT :-

