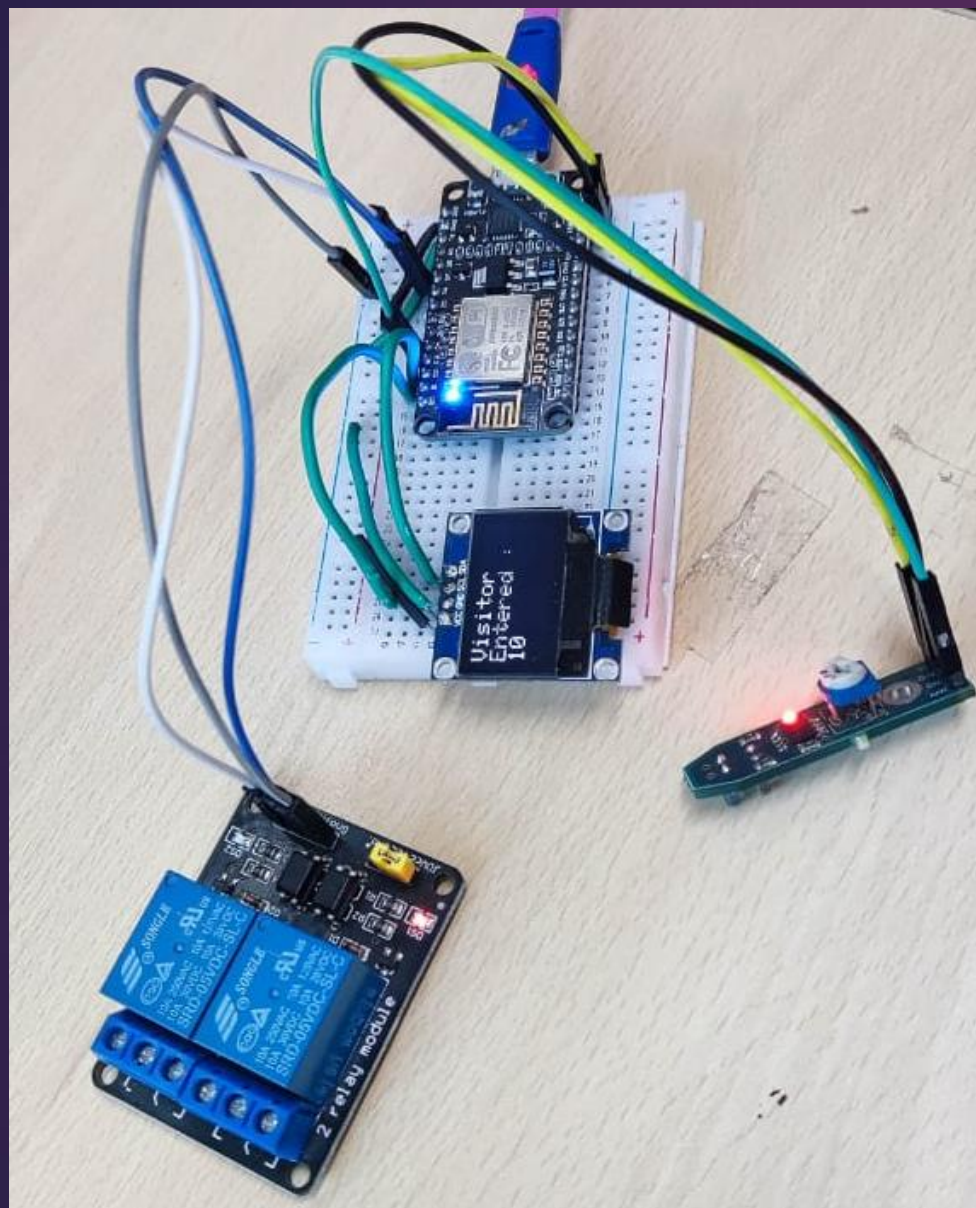




# Visitor Counter displaying on OLED using IR Sensor using Nodemcu & activation of Relay for Alarm

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## Visitor Counter based on IR Sensor

- Displayed on OLED
- Relay Getting ON/OFF – can trigger for Alarm Signal or switch on light or Dog barking sound activation

```
#include <SPI.h>
#include <Wire.h>
#include <Adafruit_GFX.h>
#include <Adafruit_SSD1306.h>
int IR = 2;
int count = 0;
#define SCREEN_WIDTH 128
#define SCREEN_HEIGHT 64
#define OLED_RESET -1 // Reset pin
#define SCREEN_ADDRESS 0x3C
Adafruit_SSD1306 display(SCREEN_WIDTH, SCREEN_HEIGHT, &Wire, OLED_RESET);
void setup()
{ Serial.begin(9600);
  pinMode(IR, INPUT);
  pinMode(13, OUTPUT);
  if(!display.begin(SSD1306_SWITCHCAPVCC, SCREEN_ADDRESS)) {
    Serial.println(F("SSD1306 allocation failed"));
    for(;;) }
  display.clearDisplay();
  display.setTextSize(2);
  display.setTextColor(WHITE);
  display.setCursor(0,0);
  display.println("Visitor Counter Started...");
  display.display();
  delay(2000);
}
```

```
void loop() {
  int IRState = digitalRead(IR);
  digitalWrite( 13,IRState);
  if(IRState == 1)
  {
    count ++;
    //Serial.println("Count : ");
    //Serial.println(count);
    display.clearDisplay();
    display.setTextSize(2);
    display.setTextColor(WHITE);
    display.setCursor(0,0);
    display.println("Visitor");
    display.println("Entered :");
    display.println(count);
    display.display();
    delay(1000);
  }
  else{
    delay(10);
  }
}
```