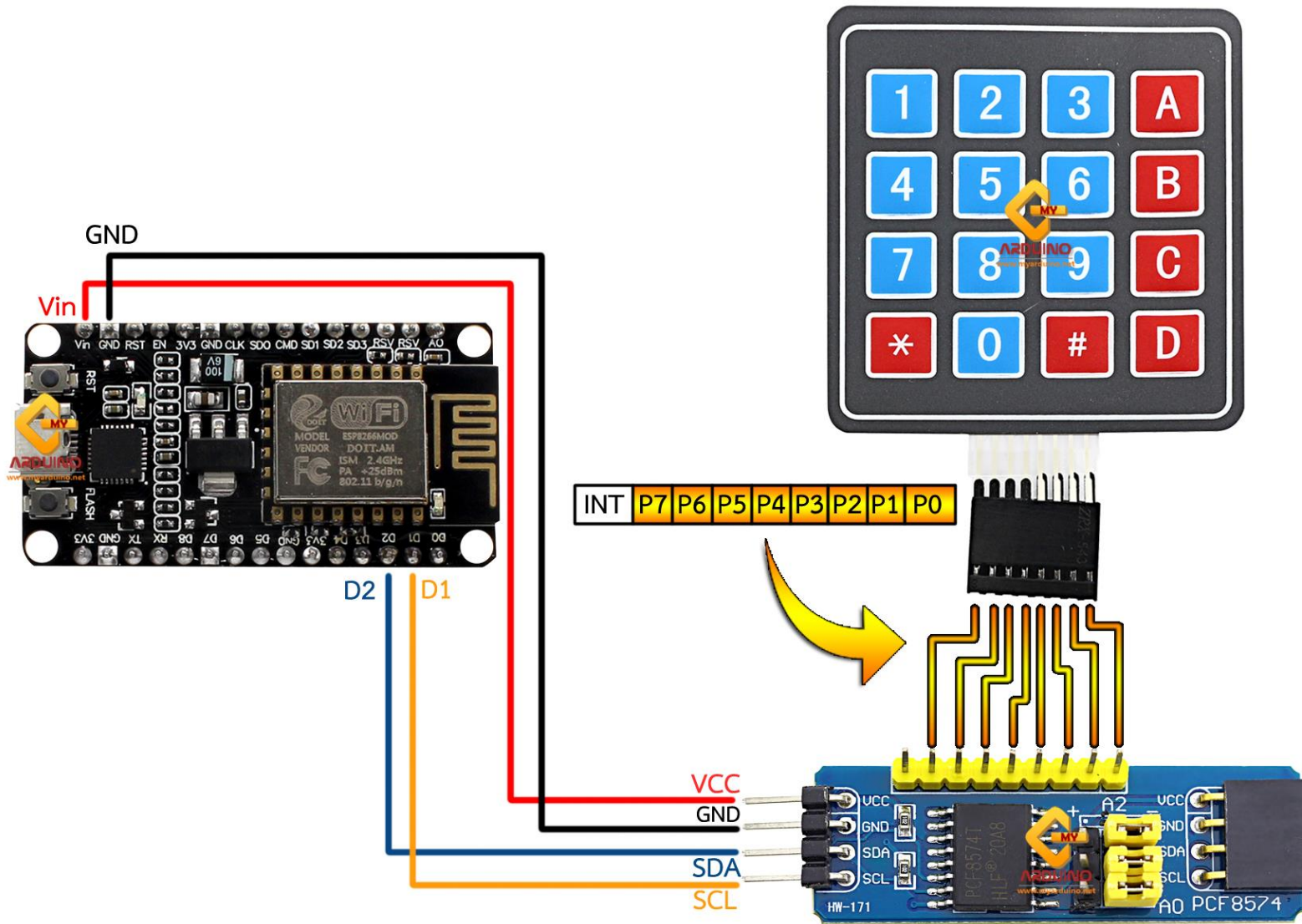


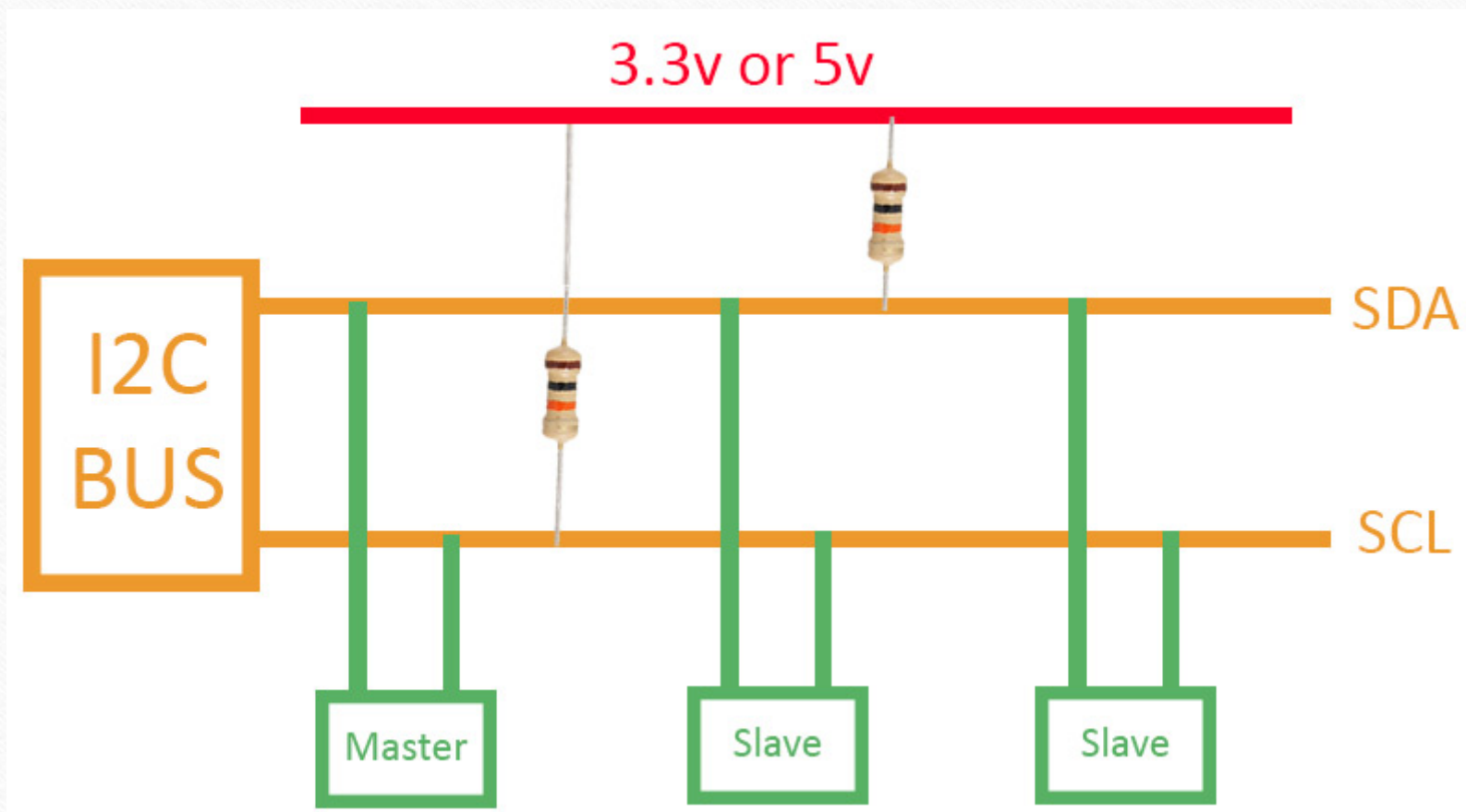
4x4 Keypad with OLED Display & Relay Control

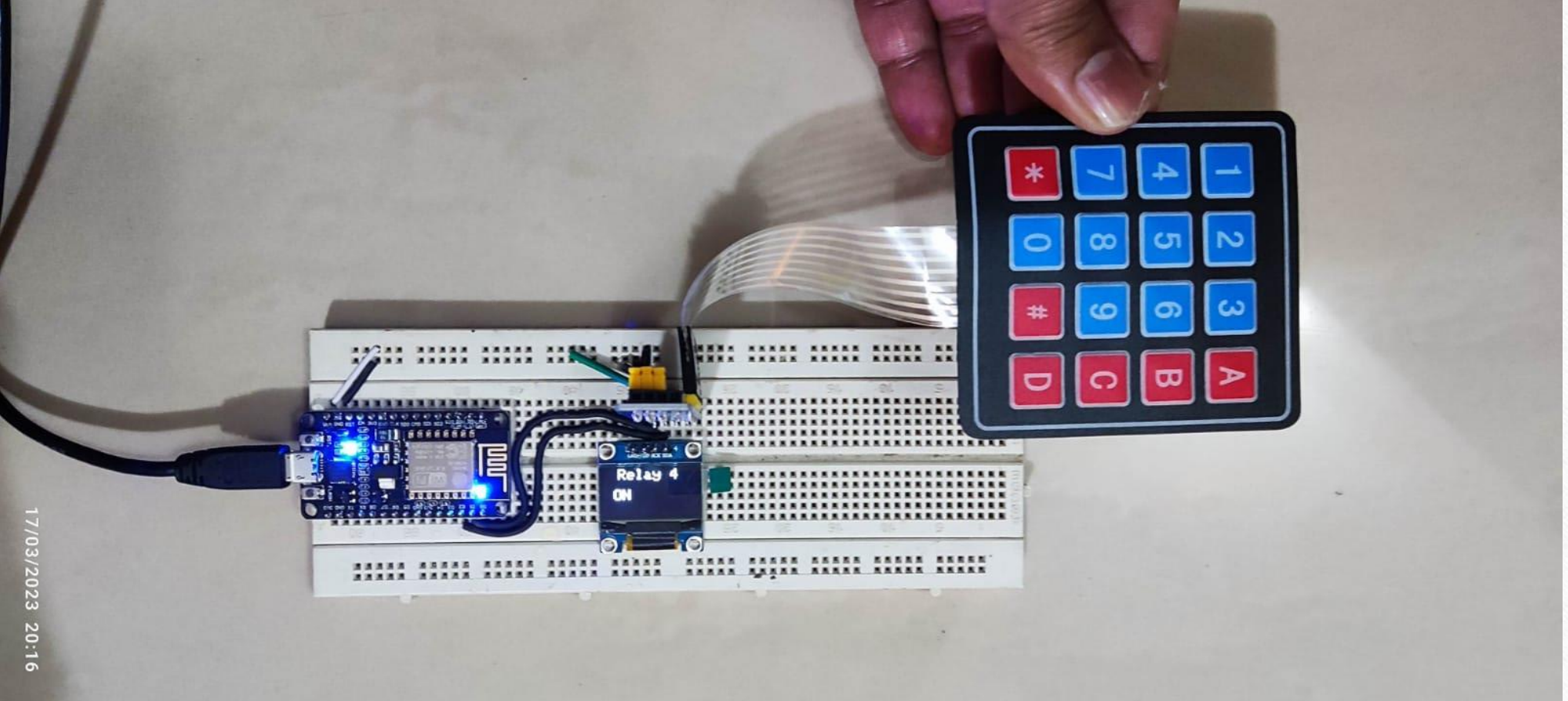
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```

//Download Library
//http://www.mediafire.com/file/z9qzwmprwdo2gqj/Keypad-master.zip/file
//http://www.mediafire.com/file/wcdmj9bo27glp35/Keypad_I2C.zip/file
#include <Keypad_I2C.h>
#include <Keypad.h>
#include <Wire.h>
int temp;
int Rh;
int pressure;
#include <SPI.h>
#include <Wire.h>
#include <Adafruit_GFX.h>
#include <Adafruit_SSD1306.h>
#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);

#define I2CADDR 0x20
const byte ROWS = 4;
const byte COLS = 4;
char keys[ROWS][COLS] = {
{'1','2','3','A'},
{'4','5','6','B'},
{'7','8','9','C'},
{'*','0','#','D'}
};
byte rowPins[ROWS] = {0, 1, 2, 3};
byte colPins[COLS] = {4, 5, 6, 7};
Keypad_I2C keypad( makeKeymap(keys), rowPins, colPins, ROWS, COLS,
I2CADDR, PCF8574 );

```

```

void setup(){
Wire.begin();
keypad.begin( makeKeymap(keys) );
Serial.begin(9600);
pinMode(16, OUTPUT);
pinMode(2, 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("B-12,J2 Road,JeevanBhimaNagar,Bangalore75");
display.display();
delay(2000);
}
void loop(){
int key = keypad.getKey();
if (key){ Serial.println(key); }
int i = key - '0';
switch (i) {
case 1:
display.clearDisplay();
display.setTextSize(2);
display.setTextColor(WHITE);
display.setCursor(20,0);
display.println("Relay 1 ");
display.setCursor(14,28);
display.println("OFF ");
display.display();
digitalWrite(16, HIGH);
break;

```

```
case 2:
display.clearDisplay();
display.setTextSize(2);
display.setTextColor(WHITE);
display.setCursor(20,0);
display.println("Relay 1");
display.setCursor(14,28);
display.println("ON");
display.display();
digitalWrite(16, LOW);
break;
case 3:
display.clearDisplay();
display.setTextSize(2);
display.setTextColor(WHITE);
display.setCursor(20,0);
display.println("Relay 2 ");
display.setCursor(14,28);
display.println("OFF ");
display.display();
digitalWrite(2, HIGH);
break;
case 4:
display.clearDisplay();
display.setTextSize(2);
display.setTextColor(WHITE);
display.setCursor(20,0);
display.println("Relay 2");
display.setCursor(14,28);
display.println("ON");
display.display();
digitalWrite(2, LOW);
break;
case 5:
display.clearDisplay();
display.setTextSize(2);
display.setTextColor(WHITE);
display.setCursor(20,0);
display.println("Relay 3 ");
display.setCursor(14,28);
display.println("OFF ");
display.display();
digitalWrite(14, HIGH);
break;
case 6:
display.clearDisplay();
display.setTextSize(2);
display.setTextColor(WHITE);
display.setCursor(20,0);
display.println("Relay 3");
display.setCursor(14,28);
display.println("ON");
display.display();
digitalWrite(14, LOW);
break;
```

```
case 7:
display.clearDisplay();
display.setTextSize(2);
display.setTextColor(WHITE);
display.setCursor(20,0);
display.println("Relay 4 ");
display.setCursor(14,28);
display.println("OFF ");
display.display();
digitalWrite(12, HIGH);
break;
case 8:
display.clearDisplay();
display.setTextSize(2);
display.setTextColor(WHITE);
display.setCursor(20,0);
display.println("Relay 4");
display.setCursor(14,28);
display.println("ON");
display.display();
digitalWrite(12, LOW);
break;
}
}
```