OLED INTEGRATION WITH ESP8266 FOR L&T LOGO [12TH JUNE CLASS WORK]

#include <Wire.h>
#include <Adafruit_GFX.h>
#include <Adafruit_SSD1306.h>

#define SCREEN_WIDTH 128 #define SCREEN_HEIGHT 64

#define OLED_RESET -1
#define SSD1306_I2C_ADDRESS 0x3C

Adafruit_SSD1306 display(SCREEN_WIDTH, SCREEN_HEIGHT, &Wire, OLED_RESET);

const unsigned char myBitmap[] PROGMEM = {

// Bitmap data here

Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Ox80, Ox01, Oxff, Oxff,

0xff, 0xff, 0x00, 0x3f, 0xff, 0x00, 0xff, 0xfc, 0x00, 0xff, 0xfe, 0x01, 0xff, 0xf8, 0x03, 0xff, 0xfc, 0x03, 0xff, 0xe0, 0x0f, 0xff, 0xf0, 0x07, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xf0, 0x07, 0xff, Oxff, Oxco, Ox1f, Oxff, Oxeo, Ox0f, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxf8, Oxo3, Oxff, 0xff, 0x80, 0x3f, 0xff, 0xc0, 0x1f, 0xff, 0x00, 0xff, 0xff, 0x80, 0x3f, 0xff, 0xfe, 0x01, 0xff, Oxfc, OxO3, Oxff, Oxfe, OxO1, Oxff, 0xf8, 0x07, 0xff, 0xfc, 0x03, 0xff, 0xf0, 0x0f, 0xff, 0xff, 0xf0, 0x07, 0xff, Oxfo, Oxof, Oxff, Oxeo, Oxof, Oxff, Oxfo, Oxof, 0xe0, 0x1f, 0xff, 0xc0, 0x1f, 0xff, 0xf8, 0x07, 0xc0, 0x3f, 0xff, 0x80, 0x3f, 0xff, 0x03, 0xc0, 0x3f, 0xff, 0x00, 0xff, 0xfc, 0x03, 0xc0, 0x7f, 0xfe, 0x01, 0xff, 0xfe, 0x03, 0x80, 0x7f, 0xf8, 0x03, 0xff, 0xfe, 0x01, 0x80, 0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x03, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x1e, 0x01, 0x80, 0xff, 0xe0, 0x00, 0x00, 0x00, 0x00, 0x03, 0xff, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3f, 0x01, 0x80, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x07, 0xfe, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0x01, 0x80, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x0f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0xff, 0x01, 0x80, 0xff, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x01, 0xff, 0x01, 0x80, 0xfe, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xe0, 0x00, 0x00, 0x00, 0x00, 0x03, 0xff, 0x01, 0x80, 0xfc, 0x00, 0x00, 0x00, 0x00, 0x00, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x0f, 0xff, 0x01, 0x80, 0x78, 0x00, 0x00, 0x00, 0x00, 0x01, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x1f, 0xfe, 0x01, 0x80, 0x7f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xc0, 0x3f, 0xff, 0xff, 0xfe, 0x01, 0xc0, 0x7f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0x80, 0x7f, 0xff, 0xff, 0xfe, 0x03, 0xc0, 0x3f, 0xff, 0xc0, 0x3f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xfc, 0x01, 0xff, 0xff, 0xff, 0xfc, 0x03, 0xe0, 0x1f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xf8, 0x03, 0xff, 0xff, 0xff, 0xf8, 0x07, Oxf0, Ox0f, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxf0, Ox07, Oxff, Oxff, Oxff, Oxf0, Ox0f,

0xf0, 0x0f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xe0, 0x0f, 0xff, 0xff, 0xff, 0xf0, 0x0f, 0xf8, 0x07, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xc0, 0x3f, 0xff, 0xff, 0xff, 0xe0, 0x1f, 0xfc, 0x03, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0x80, 0x7f, 0xff, 0xff, 0xff, 0xc0, 0x3f, Oxfe, 0x01, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0x00, 0xff, 0xff, 0xff, 0xff, 0x80, 0x7f, 0xff, 0x00, 0xff, 0x80, 0x3f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xf8, 0x03, 0xff, 0xff, 0xff, 0xfc, 0x01, 0xff, 0xff, 0xc0, 0x1f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xf0, 0x07, 0xff, 0xff, 0xff, 0xf8, 0x03, 0xff, Oxff, OxeO, OxOf, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, OxeO, OxOf, Oxff, Oxff, Oxff, Oxff, Oxf0, OxO7, Oxff, 0xff, 0xf8, 0x03, 0xff, 0xff, 0xff, 0xff, 0xff, 0xc0, 0x3f, 0xff, 0xff, 0xff, 0xc0, 0x1f, 0xff, 0xff, 0xfc, 0x00, 0xff, 0xff, 0xff, 0xff, 0xff, 0x80, 0x7f, 0xff, 0xff, 0xff, 0x00, 0x3f, 0xff, 0xff, 0xff, 0x00, 0x3f, 0xff, 0xc0, 0x0f, 0xff, 0xff, 0xff, 0xfc, 0x01, 0xff, 0xff, 0xff, 0xf0, 0x03, 0xff, 0xff, 0xff, 0xff, 0xf0, 0x01, 0xff, 0xff, 0xff, 0xf8, 0x03, 0xff, 0xff, 0xff, 0xff, 0x6f, 0xff, 0xfc, 0x00, 0x3f, 0xff, 0xff, 0xf0, 0x07, 0xff, 0xff, 0xfc, 0x00, 0x3f, 0xff, 0xff, 0xff, 0xff, 0xff, 0x00, 0x07, 0xff, 0xff, 0xe0, 0x0f, 0xff, 0xff, 0xe0, 0x00, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xe0, 0x00, 0x7f, 0xff, 0xc0, 0x3f, 0xff, 0xfe, 0x00, 0x07, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xfc, 0x00, 0x03, 0xff, 0x80, 0x7f, 0xff, 0xc0, 0x00, 0x3f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0x80, 0x00, 0x02, 0x00, 0x7f, 0xc0, 0x00, 0x01, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x01, 0xff, 0x00, 0x00, 0x00, 0x00, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Ox01, Oxff, **}**;

```
if(!display.begin(SSD1306_SWITCHCAPVCC, SSD1306_I2C_ADDRESS)) {
  while (true); // Stop here if SSD1306 initialization failed
}
```

void setup() {

```
int16_t x = (SCREEN_WIDTH)/17; // Calculate X coordinate
int16_t y = (SCREEN_HEIGHT)/17; // Calculate Y coordinate

display.drawBitmap(x, y, myBitmap, 128, 64, 1);
display.display();
}
```

