

project

1. Arduino display connect

- <https://youtu.be/SuJR7nMmofl?si=Y6hIQiRkAlf4X6lk> basic connection
 - spfd5408/ili9341 arduino [modulo inverse network security](#) uno + tft lcd touchscreen 2.4 inch



- basics and overall figure on parallel tft touch screen to create a button and to create more simple work https://youtu.be/Slo_Gv7K7Fo?si=LG3C7fIBn3KlfdQ0
- github library to arduino

<https://youtu.be/WuqEAUirXw0?si=FbbtCYspiO1bc1Qm>

- working library to the display via arduino

<https://youtu.be/D3lv0eySz8A?si=6jSlzh7lvAM4Ao6D>

blog ==> <https://techtotinker.com/2020/08/26/tutorial-how-to-use-2-4-tft-display-spfd5408-ili9341/>

The above didnt work only half display was displayed and no input signals worked

30/12/2023 12:42

display worked

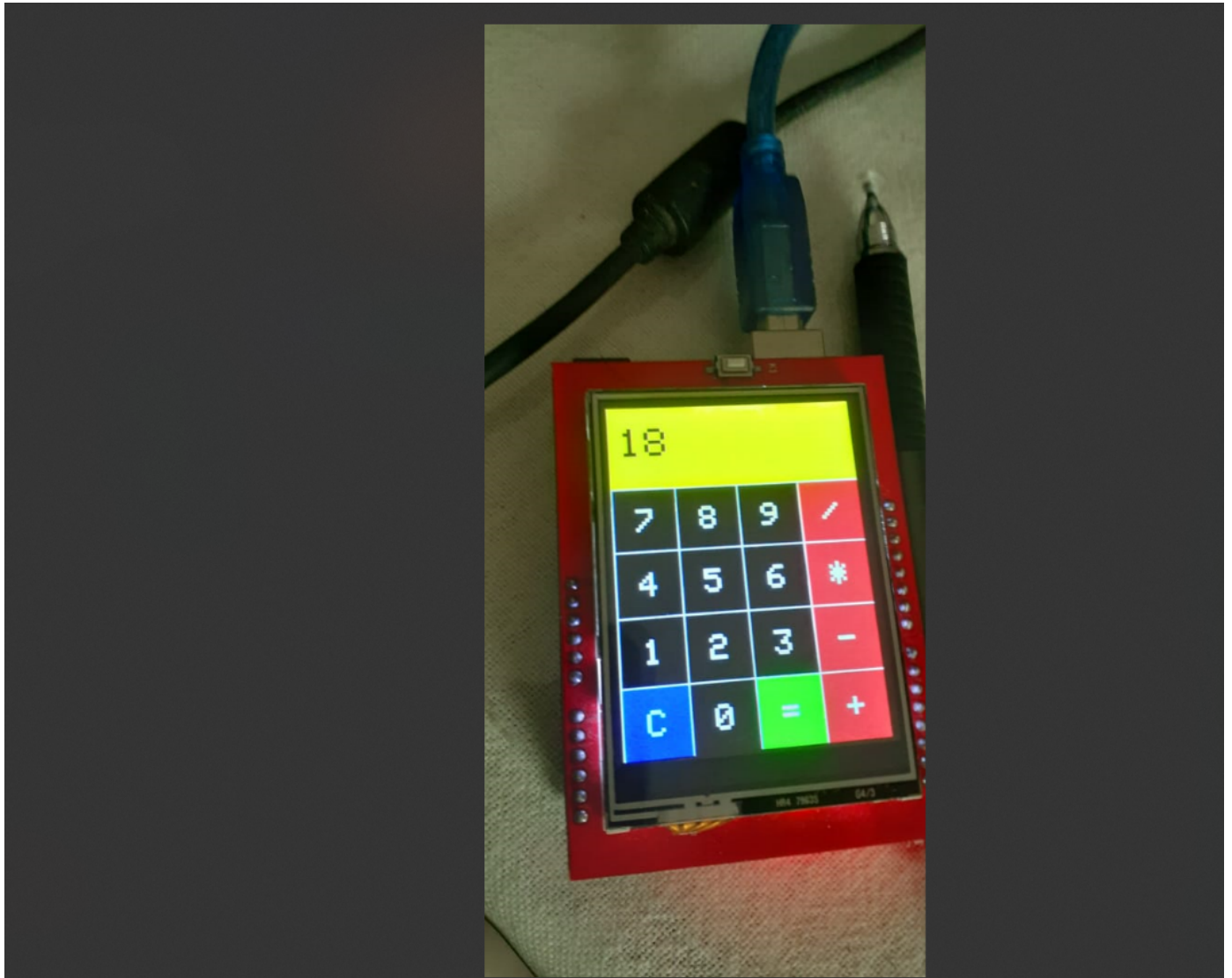
blog ==> [blog.html](#)

had to find the own interface driver for ic different from the one in the blog for that we have to see for the tft.begin function in the include file and use the respective examples in it for the driver number and use what is working

had to change the mapping part of the raw pressing points to the 0,0 and 240,360 virtual points in the display for this practical callibration process is used

if the driver number used is wrong the display might not show up anything or the display might not show quater parts like wise....

correct working image ==>



2. Bluetooth connection

bluetooth module we have ==> hc 06

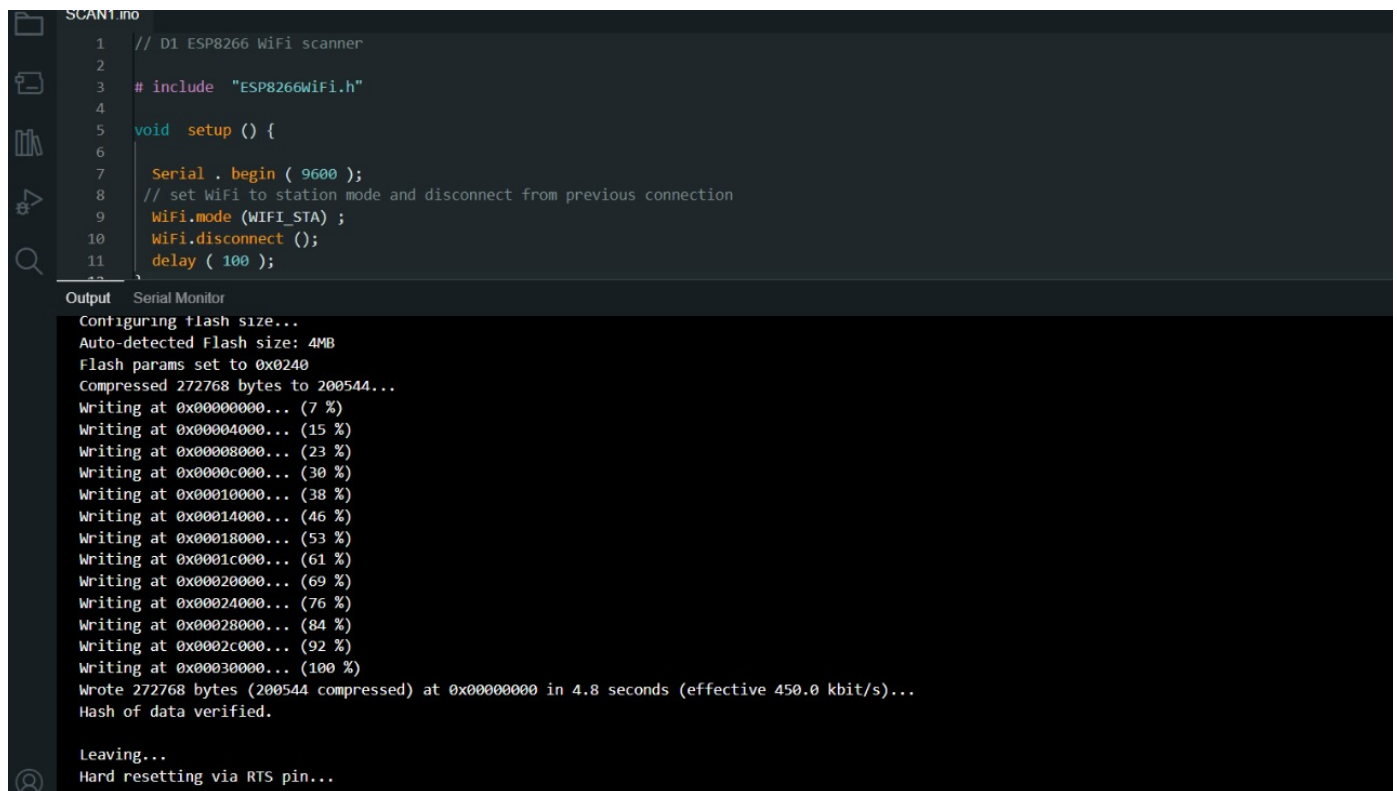
- Easy connection direct connection

[youtube ==> hc 05 / hc 06](#)

the app that is downloaded ==>

3. WiFi connection

- for the niplu's arduino with inbuilt ports == > [nipul.youtube link](#)
- ch340 driver download ==> <https://sparks.gogo.co.nz/ch340.html> this comes with the error ==> <https://stackoverflow.com/questions/76146837/a-fatal-esptool-py-error-occurred-cannot-configure-port-permissionerror13-a>
- error ==> A fatal esptool.py error occurred: Failed to connect to ESP8266: Timed out waiting for packet header ==> unplug and replug solves the problem
- error ==> A fatal esptool.py error occurred: Invalid head of packet (0x72) ==> clicking reset pin and plugging unplugging the usb works
- for proper connection ==> it should be like below screenshot



The screenshot shows the Arduino IDE interface. The top pane displays a sketch named 'SCAN1.ino' with the following code:

```
1 // D1 ESP8266 WiFi scanner
2
3 #include "ESP8266WiFi.h"
4
5 void setup () {
6
7     Serial . begin ( 9600 );
8     // set WiFi to station mode and disconnect from previous connection
9     WiFi.mode (WIFI_STA) ;
10    WiFi.disconnect ();
11    delay ( 100 );
12 }
```

The bottom pane shows the 'Serial Monitor' output with the following text:

```
Configuring flash size...
Auto-detected Flash size: 4MB
Flash params set to 0x0240
Compressed 272768 bytes to 200544...
Writing at 0x00000000... (7 %)
Writing at 0x00004000... (15 %)
Writing at 0x00008000... (23 %)
Writing at 0x0000c000... (30 %)
Writing at 0x00010000... (38 %)
Writing at 0x00014000... (46 %)
Writing at 0x00018000... (53 %)
Writing at 0x0001c000... (61 %)
Writing at 0x00020000... (69 %)
Writing at 0x00024000... (76 %)
Writing at 0x00028000... (84 %)
Writing at 0x0002c000... (92 %)
Writing at 0x00030000... (100 %)
Wrote 272768 bytes (200544 compressed) at 0x00000000 in 4.8 seconds (effective 450.0 kbit/s)...
Hash of data verified.

Leaving...
Hard resetting via RTS pin...
```

if it doesn't search for wifis still press reset and see

- nodemcu works the same, only thing we have to change the board to node mso 1.0 ==> https://youtu.be/YN522_npNqs?si=uz-KH2o_Y3j54X1G
- 29/12/2023 18:22 ==> connected to wifi hotspot successfully using nodemcu, failed to activate ESP8266 chip and the arduino inbuilt one

- 29/12/2023 18:24 ==> using nodemcu though it connected to wifi couldnt load a webpage???
should check on connecting to a database or a website check for youtubes ==>
https://youtu.be/uuqbQslon_Y?si=cguZk4HC3p7nQJ1K

4. Flutter learn
