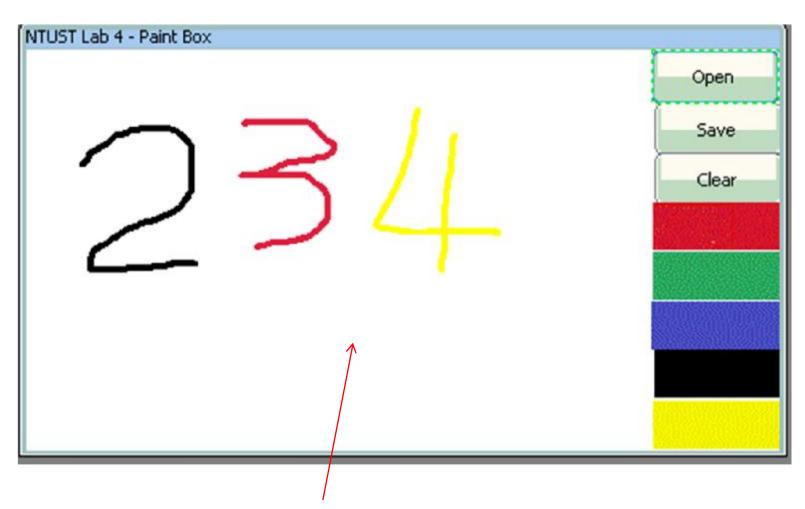
實習題目-4 簡易繪圖板

溫進坤 james_wen@hotmail.com

題目功能

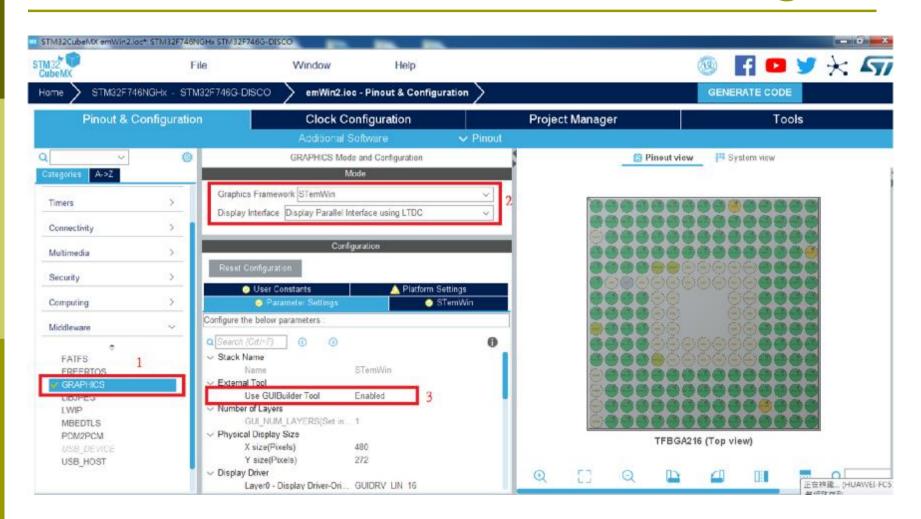
- p開機初始時清除手寫區域
- p按下"Open"按鈕,開啟之前"Save"的畫面
- p按下"Save"按鈕,儲存目前畫面至SDRAM中
- p按下"Clear"按鈕,清除手寫區域
- p 按下顏色按鈕後,手寫顏色變更為該顏色,開機 後預設顏色為黑色

執行畫面

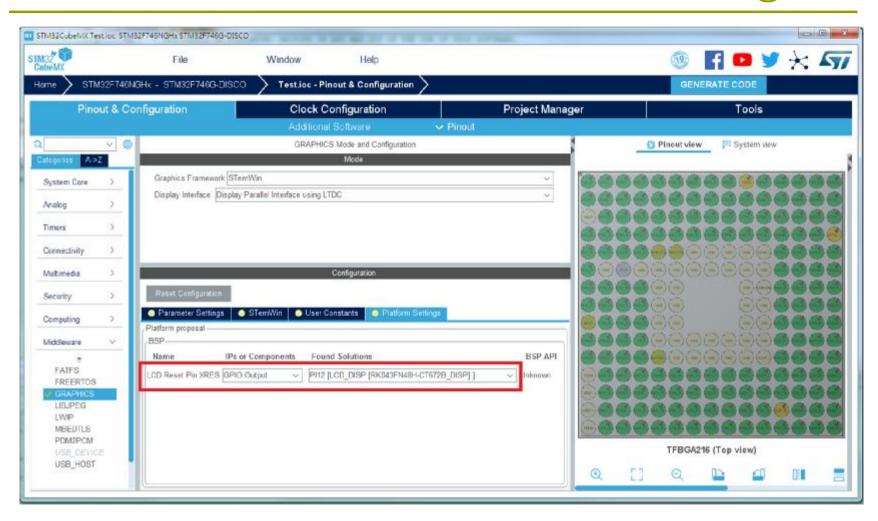


手寫區域

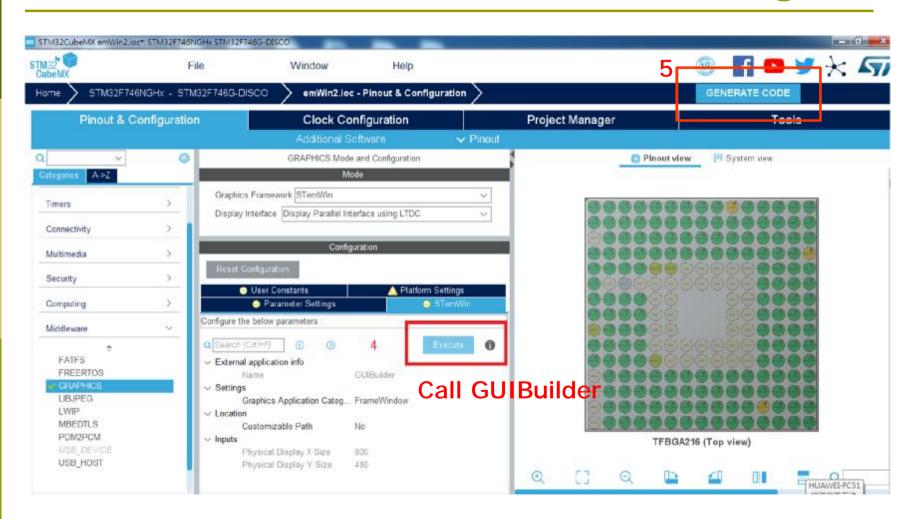
STM32CubeMX – STemWin Setting 1



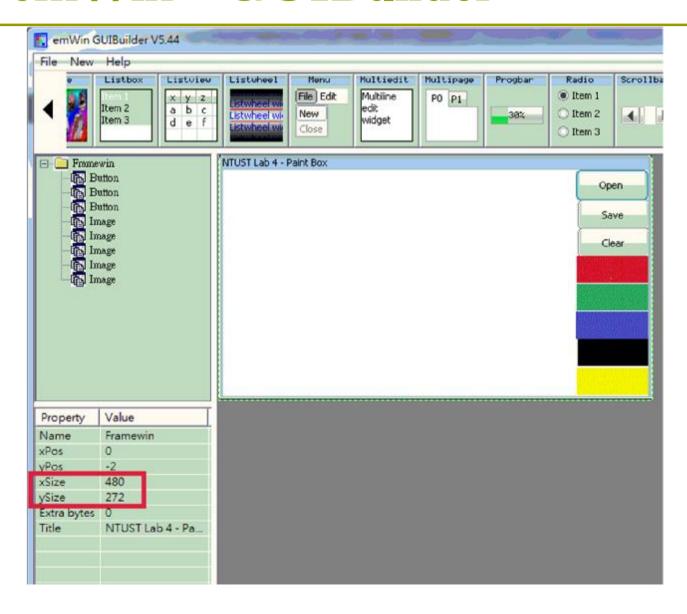
STM32CubeMX – STemWin Setting 2



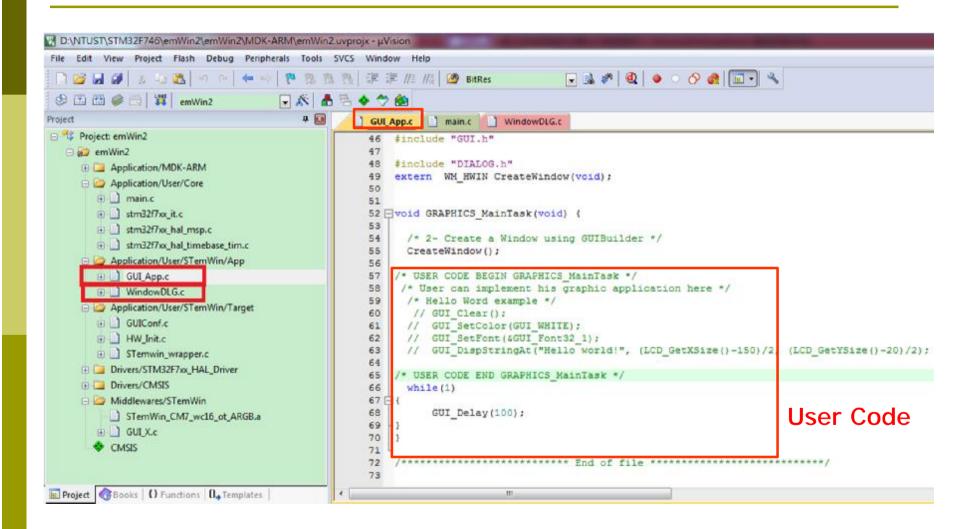
STM32CubeMX – STemWin Setting 3



STemWin - GUIBuilder



STM32CubMX – Generate Code Result



LCD touch

```
p stm32746g_discovery_ts.c
p uint8_t BSP_TS_Init(uint16_t ts_SizeX,
    uint16_t ts_SizeY)
p uint8_t
    BSP_TS_GetState(TS_StateTypeDef
    *TS_State)
```

BSP

- p stm32746g_discovery.c
- p stm32746g_discovery_lcd.c
- p stm32746g_discovery_ts.c
- p stm32746g_discovery_sdram.c
- p Components/common/ts.h
- Components/ft5336.c

計分方式

- 程式完成後請助教確認功能是否正確,並給予完成順序號。
- 2. 檢查後立即將所有程式壓縮7z檔後上傳至 Moodle[繳交作業],並在檔名依序寫上實習題目 號碼、完成順序號、 學號。

(檔名:Lab_4_No_xx_學號.7z)

1. 計分標準依完成順序及程式內容給分,<u>若發現程</u> 式有互相抄襲狀況,該兩人分數皆為0分。

参考資料

- p Getting started with STM32F746G discovery software development tools.pdf
- STM32F746xx_HAL_User_Manual.chm
- Description of STM32F7xx HAL drivers.pdf
- p embedded_client_api.html