

Corvette F1 Lab 2

7-Segment

Driving Innovations™



Lab 2 of Corvette F1

◆ Target:

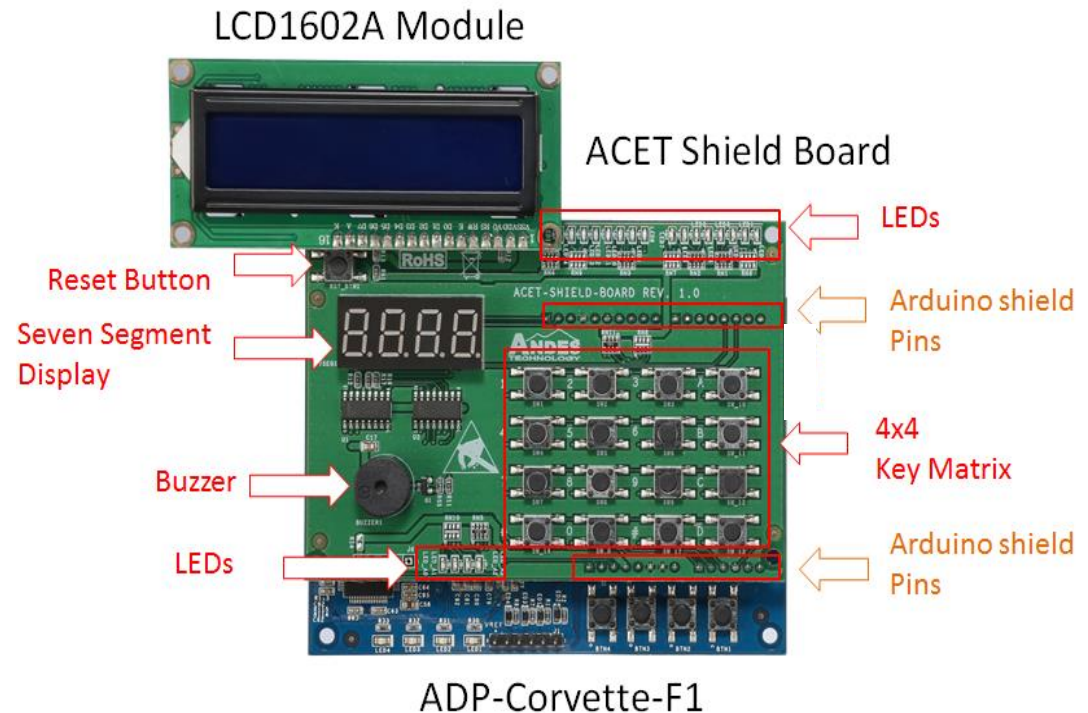
- Control 7-Segment 產生變化

◆ Hardware requirements:

- Corvette F1
- ACET Shield Board
- Micro-USB

◆ Software requirement

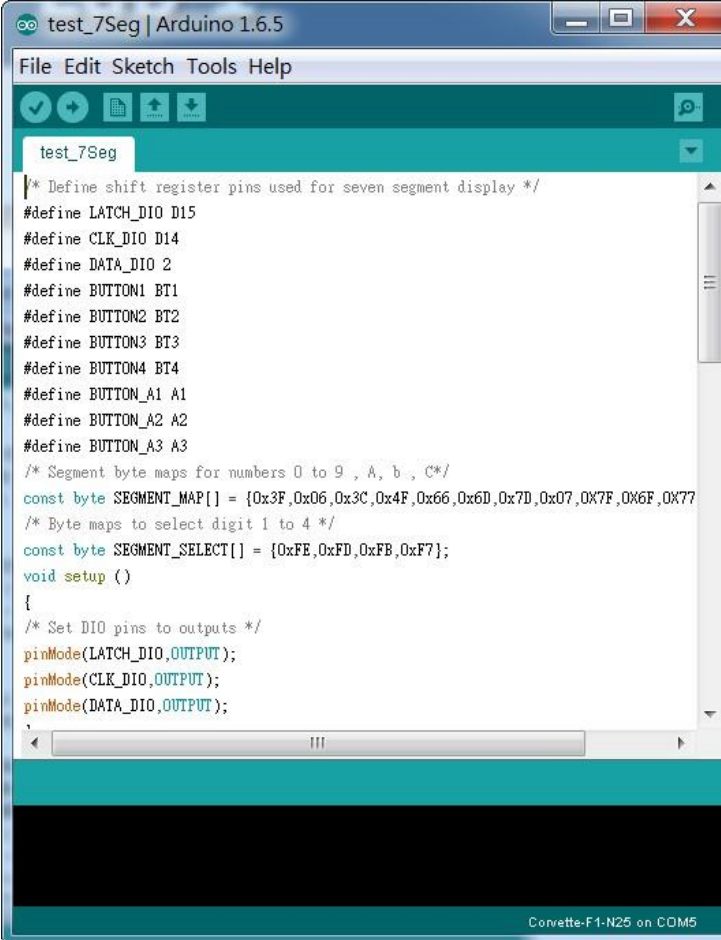
- Arduino software v1.6.5



Lab 2

◆ Import Sample Code

- Run “Arduino IDE” program → Select “File” → “Open” → “Test_7Seg”



```
test_7Seg | Arduino 1.6.5
File Edit Sketch Tools Help

test_7Seg

/* Define shift register pins used for seven segment display */
#define LATCH_DIO D15
#define CLK_DIO D14
#define DATA_DIO 2
#define BUTTON1 BT1
#define BUTTON2 BT2
#define BUTTON3 BT3
#define BUTTON4 BT4
#define BUTTON_A1 A1
#define BUTTON_A2 A2
#define BUTTON_A3 A3

/* Segment byte maps for numbers 0 to 9 , A, b , C*/
const byte SEGMENT_MAP[] = {0x3F,0x06,0x3C,0x4F,0x66,0x6D,0x7D,0x07,0x7F,0x6F,0x77}
/* Byte maps to select digit 1 to 4 */
const byte SEGMENT_SELECT[] = {0xFE,0xFD,0xFB,0xF7};

void setup ()
{
  /* Set DIO pins to outputs */
  pinMode(LATCH_DIO,OUTPUT);
  pinMode(CLK_DIO,OUTPUT);
  pinMode(DATA_DIO,OUTPUT);
}
```

Lab 2

◆ Result

➤ 透過產生7-Segment產生變化

