BEGIN

www.E2CRE8.be - Brainbox Arduino - by Bart Huyskens
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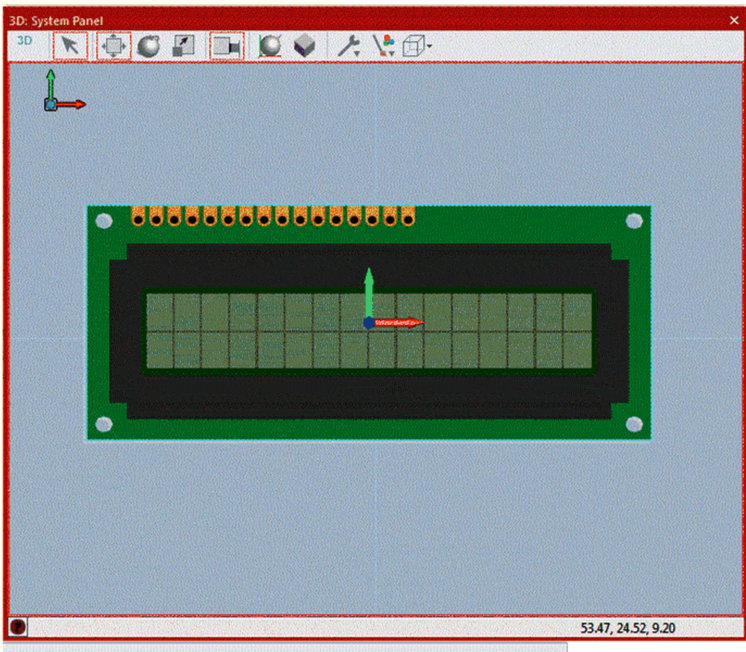
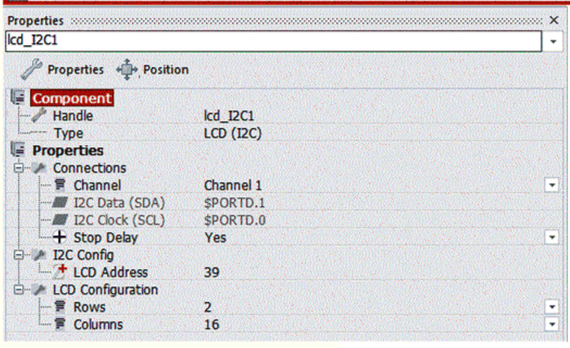
This program drives an I2C LCD of the type:
16 character 2 line I2C Display
Backpack Interface labelled "YwRobot Arduino LCM1602 IIC V1" (2€ @ aliexpress)

Connect this LCD as follows:
LCD Brainbox Arduino
GND GND
VCC +5V
SDA SDA/2
SCL SCL/3
!! Pull up resistors are required - place 4K7 between SDA and 5V and 4K7 between SCL and 5V

To communicate correctly with this I2C LCD Flowcode has this LCD(I2C) component
You can find this component with the search function in FC6
Properties for this I2C LCD:
- Channel 1
- LCD Adress: 39
- Rows: 2
- Columns: 16





Call Component Macro
lcd_I2C1::Start()

Call Component Macro
lcd_I2C1::BacklightControl(255)

Delay
1 s

Call Component Macro
lcd_I2C1::BacklightControl(0)

Delay
1 s

Call Component Macro
lcd_I2C1::BacklightControl(255)

Delay
1 s

Call Component Macro
lcd_I2C1::Cursor(0,
0)

Call Component Macro
lcd_I2C1::PrintString("Brainbox")

Call Component Macro
lcd_I2C1::Cursor(2,
1)

Call Component Macro
lcd_I2C1::PrintString("Arduino")

Delay
1 s

Call Component Macro
lcd_I2C1::Clear()

Call Component Macro
lcd_I2C1::Cursor(3,
0)

Call Component Macro
lcd_I2C1::PrintString("testing...")

Calculation
count = 10

Loop
Until
Count = 0

Be aware that the instructions from this loop take so much time
that this loop takes about 1 sec to execute these 4 instructions.

Call Component Macro
lcd_I2C1::ClearLine(1)

Call Component Macro
lcd_I2C1::Cursor(6,
1)

Call Component Macro
lcd_I2C1::PrintNumber(Count)

Calculation
Count = Count - 1

Call Component Macro
lcd_I2C1::Clear()

Call Component Macro
lcd_I2C1::Cursor(0,
0)

Call Component Macro
lcd_I2C1::PrintString("End of LCD Test")

Call Component Macro
lcd_I2C1::Cursor(1,
1)

Call Component Macro
lcd_I2C1::PrintString("www.e2cre8.be")

END