LESSON 11: The 2 Line LCD Display and its HD44780 Controller

# Exercise 11: The LCD Display > Documentation

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link: https://dcsit.twiki.ucc.edu.gh/do/view/UCC\_Course/LCDDisplay

**Goal:**

The exercise session was focused on writing “C” programs to print text on the screen of the 2-line LCD display

## **Exercise 1: Hello World version 1**

## The LCD was connected to the breadboard in the exact fashion as displayed in the give circuit diagram. The customary “Hello World” line was written to the screen of the LCD display making use of the functions in the library given at <https://dcsit.twiki.ucc.edu.gh/html/libDoc/hd44780/>

## **Exercise 2: The name display**

A name display program was created to display the name of an individual on the LCD Display. The text “DCSIT welcomes” preceded the name of the individual as required using the same library. The text “DCSIT welcomes” is dispalyed on the first line and the name of the individual on the second line after the user inputs his name.

## ***Exercise 3: Hello World version 2***

*Another “Hello World” program was created but this time, the program done with access to only the “pigpiod” library , the “pigpio” library functions had to be carefully applied in order to create the program.*

## ***Exercise 4: A small display library***

*This section of the exercise required a display library to be created. This library to be created was to allow the user to write any 2 lines of text on the display. This section was not completed in time due to the nature of required it was demanding. Details of the section are therefore missing from the attached source code.*

**Remarks**

In this exercise session I had to read the pigpio library carefully to be able apply it well enough.