Display specifications

Introduction

The LCD background display is a display with 2 rows and 16 columns that allows also to change the background of the screen.

This must be connected to an I2C port.

The library basically contains the following functions.

API

Constructor

```
    Grove_LCD_RGB_Backlight(PinName sda, PinName scl);
```

Usually use pins D14 as SDA and pin D15 as scl

Set RGB backlight

```
 /** Set RGB color of backlight
    *   @param r Value for the red component of the RGB backlight (Between 0 and
255).
    *   @param g Value for the green component of the RGB backlight (Between 0 an
d 255).
    *   @param b Value for the blue component of the RGB backlight (Between 0 and
 255).
    */
    void setRGB(char r, char g, char b);
```

Clear the display

```
    /** Removes all of the text from the display.
    */
    void clear();
```

Write

```
// This function in conjunction with hex2dec will output BCD values
    // on the LCD screen
    void write(char data1);
```

```
/ This function will output characters both ASCII and ALTERNATE
    void writech(char data2);
```

Print to the screen

```
/**Prints text to the LCD display.
    * @param *str Pointer to an array of characters which will be printed to the
LCD screen.
    */
    void print(char *str);
```

Locate the cursor.

```
 /**Move cursor to specified location on the LCD screen.
    * @param col Value for which column on the display the next text being printe
d will start at.
    * @param row Value for which row on the display the next text being printed w
ill be printed on.
    */
    void locate(char col, char row);
```