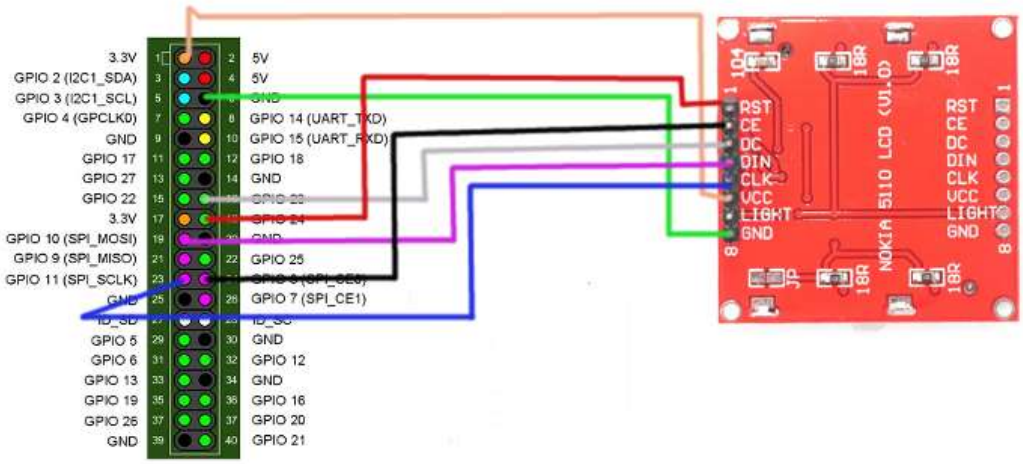
Nokia 5110 configuration

Raspberry PI GPIO	5110 LCD
18 GPIO 24	RST
24 SPI_CE0	CE
16 GPIO 23	DC
19 SPI_MOSI	DIN
23 SPI_SCLK	CLK
1 VCC 3.3V	VCC
11 GPIO 17	LIGHT
6 GND	GND



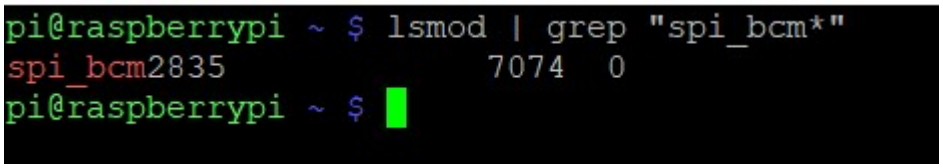
Install the required software:

sudo apt-get update
sudo apt-get install python-pip python-dev build-essential python-imaging
sudo pip install RPi.GPIO

Edit the boot configuration and uncomment or add “dtparam=spi=on”
sudo vim /boot/config.txt

```
47 hdmi_force_hotplug=1
48 config_hdmi_boost=4
49 overscan_left=24
50 overscan_right=24
51 overscan_top=16
52 overscan_bottom=16
53 disable_overscan=0^Mdtoverlay=w1-gpio
54 dtoverlay=pcf8523-rtc
55
56 dtoverlay=w1-gpio
57 dtoverlay=pcf8523-rtc
58 dtoverlay=w1-gpio
59 dtoverlay=pcf8523-rtc
60 dtoverlay=w1-gpio
61 dtoverlay=pcf8523-rtc
62
63
64 # for display
65 dtparam=spi=on
```

Reboot the system and verify that the spi module is loaded:
sudo reboot
lsmod | grep "spi_bcm*"



Clone and install the library for the display:
git clone https://github.com/adafruit/Adafruit_Nokia_LCD.git
cd Adafruit_Nokia_LCD
sudo python setup.py install

Now you can start the display.py script located at Weatherstation/Python/Display:

sudo python display.py

Source:

https://www.algissalys.com/how-to/nokia-5110-lcd-on-raspberry-pi