1. Install nano editor compiler and Git

sudo apt-get install nano
sudo apt-get install git

```
pi@raspberrypi:~ $ sudo apt-get install gcc
pi@raspberrypi:~ $ sudo apt-get install nano
pi@raspberrypi:~ $ sudo apt-get install git
```

2.Install wiringPi

Step 1: Create a new folder to store the wiringPi source code, here we name it work

```
mkdir work
```

Step 2: Enter work folder

```
cd work/
```

Step 3: Get wiringPi source code

```
git clone --recursive https://github.com/WiringPi/WiringPi-Python.git
```

Step 4: Enter wiringPi folder

```
cd WiringPi-Python/
```

Step 5: Run install command

```
sudo python3 setup.py install
```

If the error shown in the figure below appears, it is because swig is not installed.

```
pi@raspberrypi:~/Work/WiringPi-Python $ sudo python3 setup.py install
Error:  Building this module requires either that swig is installed
        (e.g., 'sudo apt install swig') or that wiringpi_wrap.c from the
        source distribution (on pypi) is available.
```

Step 6: Run install swig command

```
sudo apt-get install swig
```

Step 7: Run install command again

```
sudo python3 setup.py install
```

3. Test

Step 1: Enter wiringPi-Python folder and find examples folder

```
cd examples/
```

```
pi@raspberrypi:~/work/WiringPi-Python $ cd examples/
pi@raspberrypi:~/work/WiringPi-Python/examples $ ls
callback.py       n5510-mcp23017.py    softpwm.py
delay.py          quick2wire-io.py     softtone.py
ladder-board.py   RUN_THESE_WITH_SUDO  two-mcp23017.py
```

Step 2: Run code

python delay.py

```
pi@raspberrypi:~/work/WiringPi-Python/examples $ python3 delay.py
Hello World
Hi again!
```

Step 3: View Raspberry Pi pin information

gpio readall

```
pi@raspberrypi:~/work/WiringPi-Python/examples $ gpio readall
 +-----+-----+---------+------+---+---Pi 4B--+---+------+---------+-----+-----+
 | BCM | wPi |   Name  | Mode | V | Physical | V | Mode | Name    | wPi | BCM |
 +-----+-----+---------+------+---+----++----+---+------+---------+-----+-----+
 |     |     |    3.3v |      |   |  1 || 2  |   |      | 5v      |     |     |
 |   2 |   8 |   SDA.1 |   IN | 1 |  3 || 4  |   |      | 5v      |     |     |
 |   3 |   9 |   SCL.1 |   IN | 1 |  5 || 6  |   |      | 0v      |     |     |
 |   4 |   7 | GPIO. 7 |   IN | 1 |  7 || 8  | 1 | IN   | TxD     | 15  | 14  |
 |     |     |      0v |      |   |  9 || 10 | 1 | IN   | RxD     | 16  | 15  |
 |  17 |   0 | GPIO. 0 |   IN | 0 | 11 || 12 | 0 | IN   | GPIO. 1 | 1   | 18  |
 |  27 |   2 | GPIO. 2 |   IN | 0 | 13 || 14 |   |      | 0v      |     |     |
 |  22 |   3 | GPIO. 3 |   IN | 0 | 15 || 16 | 0 | IN   | GPIO. 4 | 4   | 23  |
 |     |     |    3.3v |      |   | 17 || 18 | 0 | IN   | GPIO. 5 | 5   | 24  |
 |  10 |  12 |    MOSI |   IN | 0 | 19 || 20 |   |      | 0v      |     |     |
 |   9 |  13 |    MISO |   IN | 0 | 21 || 22 | 0 | IN   | GPIO. 6 | 6   | 25  |
 |  11 |  14 |    SCLK |   IN | 0 | 23 || 24 | 1 | IN   | CE0     | 10  | 8   |
 |     |     |      0v |      |   | 25 || 26 | 1 | IN   | CE1     | 11  | 7   |
 |   0 |  30 |   SDA.0 |   IN | 1 | 27 || 28 | 1 | IN   | SCL.0   | 31  | 1   |
 |   5 |  21 | GPIO.21 |   IN | 1 | 29 || 30 |   |      | 0v      |     |     |
 |   6 |  22 | GPIO.22 |   IN | 1 | 31 || 32 | 0 | IN   | GPIO.26 | 26  | 12  |
 |  13 |  23 | GPIO.23 |   IN | 0 | 33 || 34 |   |      | 0v      |     |     |
 |  19 |  24 | GPIO.24 |   IN | 0 | 35 || 36 | 0 | IN   | GPIO.27 | 27  | 16  |
 |  26 |  25 | GPIO.25 |   IN | 0 | 37 || 38 | 0 | IN   | GPIO.28 | 28  | 20  |
 |     |     |      0v |      |   | 39 || 40 | 0 | IN   | GPIO.29 | 29  | 21  |
 +-----+-----+---------+------+---+----++----+---+------+---------+-----+-----+
 | BCM | wPi |   Name  | Mode | V | Physical | V | Mode | Name    | wPi | BCM |
 +-----+-----+---------+------+---+---Pi 4B--+---+------+---------+-----+-----+
```