The demo software compiles the implementation of the three clients for demo purposes. The raspberry PI must first be configured as a client of the IBM bluemix cloud. Install the required dependencies by following the steps below:

1.curl –LO <https://github.com/ibm-messaging/iot-raspberrypi/releases/download/1.0.2.1/iot_1.0-2_armhf.deb>

2..sudo dpkg –i iot\_1.0-2\_armhf.deb

if this step gives you error, check the following link to install libssl

<https://github.com/ibm-watson-iot/device-raspberrypi/issues/17>

3. sudo apt-get update

4. sudo apt-get upgrade

5. sudo service iot stop

6. sudo service iot start

7. sudo service iot status

8. sudo service getdeviceid

9. create device.cfg file at sudo nano /etc/iotsample-raspberrypi/device.cfg

The file should have the following contents:

org=<OrgID>

type=<devicetype>

id=<unique ID> //Mostly mac address without the colons

auth-method=token or use-token-auth

auth-token=<authToken> //assigned by bluemix for device

10. sudo service iot restart

For temperature/heat sensor :

1. sudo nano /boot/config.txt
2. At the end of the file config.txt add dtoverlay=w1–gpio
3. sudo reboot
4. sudo modprobe w1–gpio
5. sudo modprobe w1-therm
6. cd /sys/bus/w1/devices/28-XXXXXXXXXXXX
7. cat w1\_slave (This should be displaying the temperature)

In order to execute program run :

sudo python healthy\_habits\_demo.py