```
paho/test Hello
CTraceback (most recent call last):
 File "/root/iot/lesson5/sub.py", line 11, in <module>
   client.loop_forever()
 File "/usr/local/lib/python3.10/dist-packages/paho/mqtt/client.py", line 1756, in loop_forever
   rc = self._loop(timeout)
 File "/usr/local/lib/python3.10/dist-packages/paho/mqtt/client.py", line 1150, in _loop
   socklist = select.select(rlist, wlist, [], timeout)
KeyboardInterrupt
root@Nestor:~/iot/lesson5# python3 sub-multiple.py
Connected with result code 0
paho/test/multiple multiple 1
paho/test/multiple multiple 2
CTraceback (most recent call last):
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KeyboardInterrupt
root@Nestor:~/iot/lesson5# python3 subcpu.py
Connected with result code 0
```

```
root@Nestor:~# git clone https://github.com/eclipse/paho.mqtt.python.git
Cloning into 'paho.mqtt.python'...
remote: Enumerating objects: 4531, done.
remote: Counting objects: 100% (904/904), done.
remote: Compressing objects: 100% (108/108), done.
remote: Total 4531 (delta 835), reused 796 (delta 796), pack-reused 3627
Receiving objects: 100% (4531/4531), 1.21 MiB | 7.27 MiB/s, done.
Resolving deltas: 100% (2483/2483), done.
root@Nestor:~# cd ~/iot/lesson5
root@Nestor:~/iot/lesson5# python3 client.py
Connected with result code 0
$SYS/broker/publish/bytes/received 683622721578
```

```
root@Nestor:~/iot/lesson5# python3 sub.pytest/topic Hello
^C
root@Nestor:~/iot/lesson5# python3 sub.py
Connected with result code 0
paho/test Hello
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KeyboardInterrupt
```

```
root@Nestor:~# mosquitto_sub -h localhost -v -t "\$SYS/#"
$SYS/broker/version mosquitto version 2.0.11
$SYS/broker/uptime 42852 seconds
$SYS/broker/uptime 42863 seconds
$SYS/broker/clients/total 1
$SYS/broker/clients/active 1
$SYS/broker/clients/connected 1
$SYS/broker/load/messages/received/1min 1.83
$SYS/broker/load/messages/sent/1min 7.31
$SYS/broker/load/publish/sent/1min 5.48
$SYS/broker/load/bytes/received/1min 24.67
$SYS/broker/load/bytes/sent/1min 201.92
$SYS/broker/load/sockets/1min 0.91
root@Nestor:~# service mosquitto status
 mosquitto.service - Mosquitto MQTT Broker
Loaded: loaded (/lib/systemd/system/mosquitto.service; enabled; vendor preset: enabled)
     Active: active (running) since Wed 2023-11-15 10:32:40 EST; 1 week 0 days ago
       Docs: man:mosquitto.conf(5)
              man:mosquitto(8)
   Main PID: 3766 (mosquitto)
      Tasks: 1 (limit: 19010)
     Memory: 1.8M
     CGroup: /system.slice/mosquitto.service
              └─3766 /usr/sbin/mosquitto -c /etc/mosquitto/mosquitto.conf
Nov 15 10:32:40 Nestor systemd[1]: Starting Mosquitto MQTT Broker...
Nov 15 10:32:40 Nestor systemd[1]: Started Mosquitto MQTT Broker.
root@Nestor:~# netstat -tln
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address
                                                Foreign Address
                                                                          State
                   0 127.0.0.1:1883
                                                0.0.0.0:*
                                                                          LISTEN
tcp
           0
                   0 127.0.0.53:53
                                                0.0.0.0:*
                                                                          LISTEN
tcp
root@Nestor:~# mosquitto_sub -h localhost -v -t test/topic &
[1] 7708
tcp6
           0
                   0 ::1:1883
                                                                          LISTEN
root@Nestor:~# test/topic Hello
```

Terminal 2

```
root@Nestor:~# mosquitto_pub -h localhost -t test/topic -m "Hello"
root@Nestor:~#
```

```
root@Nestor:~# cd ~/iot/lesson5
root@Nestor:~/iot/lesson5# python3 client.py
Connected with result code 0
$SYS/broker/publish/bytes/received 1119963738550
$SYS/broker/publish/bytes/sent 23005989101063
$SYS/broker/publish/messages/dropped 120351523616
$SYS/broker/publish/messages/received 3531799113
$SYS/broker/publish/messages/sent 133678540117
```

```
Terminal 1
root@Nestor:~/iot/lesson5# python3 subcpu.py
Connected with result code 0
MyCPU 2023-11-22 18:30:02
MyCPU CPU Usage: 2.1 %
MyCPU 2023-11-22 18:30:12
MyCPU CPU Usage: 0.0 %
root@Nestor:~/iot/lesson5# python3 sub-multiple.py
Connected with result code 0
paho/test/multiple multiple 1
paho/test/multiple multiple 2
^CTraceback (most recent call last):
 root@Nestor:~/iot/lesson5# python3 sub.py
 Connected with result code 0
 paho/test Hello
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