8. Módulo socket

Para hacer el escaneo de los puertos:

```python
1   import socket
2   import sys
3
4   def checkPortsSocket(ip,portlist):
5       print("IP",ip,type(ip))
6       try:
7           for port in portlist:
8               sock= socket.socket(socket.AF_INET,socket.SOCK_STR
9               sock.settimeout(5)
10              result = sock.connect_ex((ip,port))
11              if result == 0:
12                  print ("Puerto {}: \t Abierto".format(port))
13              else:
14                  print ("Puerto {}: \t Cerrado".format(port))
15              sock.close()
16      except socket.error as error:
17          print (str(error))
18          print ("Error de conexion")
19          sys.exit()
```

Python 3.8.5 Shell

File Edit Shell Debug Options Window Help

```
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:
on win32
Type "help", "copyright", "credits" or "license()" for
>>> import socket
>>> print(socket.gethostbyname_ex('google.com'))
('google.com', [], ['172.217.15.14'])
>>> print(socket.gethostbyaddr('172.217.15.14'))
('qro01s18-in-f14.1e100.net', [], ['172.217.15.14'])
>>> print(socket.getfqdn('google.com'))
qro01s18-in-x0e.1e100.net
>>>
```