Packet Sniffer Install guide for Ubuntu 16.04.2 LTS

Upon a clean install of Ubuntu run these following commands:

```
$ sudo apt-get update
$ sudo apt-get upgrade
$ sudo apt-get install python-pip python-dev build-essential
$ sudo pip install --upgrade pip
$ sudo apt-get install ipython
$ sudo apt-get install bluetooth libbluetooth-dev
$ sudo apt-get install pkg-config libboost-python-dev
$ sudo apt-get install libboost-thread-dev libglib2.0-dev
$ sudo apt-get install kismet
$ sudo apt-get install aircrack-ng
```

To find your bluetooth device interface type:

```
$ hcitool dev
```

Edit dev_id on line 132 of the file sniffblue.py to be the number of the hci device. For example if the hci device is hci1 then dev_id = 1 and if hci0 then dev_id = 0

To find your wireless interface for wifi dongle type:

```
$ ifconfig -a
```

Now that you know the interface of your wifi dongle set it to monitor mode by (example wlan0):

```
$ sudo airmon-ng check kill
$ sudo airmon-ng start wlan0
```

Now the wifi dongle interface has a monitor mode interface that should be mon0. To install the python required libraries run the following commands:

```
$ sudo pip install pybluez
$ sudo pip install gattlib
$ sudo pip install scapy
```

To run project:
```
$ sudo python server.py
```

To connect to project:
```
$ telnet localhost 6666
```

From telnet typing `close` will close your connection to the server and the commands from the project requirements is also accepted.