Setup -->

Devices: Mobile(Android) and Computer(Linux)

Device1 - Phone(Android) Device2 - Computer(Linux)

Network: Mobile Hotspot and Tethering

Output -->

Device 1 - Phone - To send the UDP packet with a payload(any message) - Used QPython App

```
QEdit - CN_UDP_Sender.py
                                                            4
   # Sender Program
   from socket import *
3
4
   ip = '192.168.43.223' # Ip address of the connected machine
   port = 33333
   sock1 = socket(AF_INET, SOCK_DGRAM) # UDP Socket Intialization
6
   msg = "Hi, This is the packet you sent !!!"
8
   sock1.sendto(msg, (ip, port))
10
11
12
                      Q
                                                  1
         >
               \rightarrow
```

Device 2 - Computer - To Receive the packet and decode to view the contents - Python 2.7

```
rinivas@srinivas-Lenovo-Flex-2-14:~/Desktop$ sudo python Socket_Receiver.py
wlan0
PHYSICAL LAYER: -----> Wireless
ETHERNET LAYER: ----->
*The Data Link Component of the packet is as follow - the FRAME is as follows
*The Destination MAC is ac:e0:10:18:2d:dd
*The Source MAC is 50:9e:a7:d4:b5:61
*Type is as follows:0800 IPV4
NETWORK LAYER: ------>
*The Source IP is 192.168.43.1
*The Destination IP is 192.168.43.223
*The IP Version is 4
TRANSPORT LAYER: ----->
*The Protocol Type is 17 UDP
*The Source Port and the Destination Port is 36392,33333
APPLICATION LAYER: ----->
*The Payload is as follows --> "Hi, This is the packet you sent !!!"
srinivas@srinivas-Lenovo-Flex-2-14:~/Desktop$
```