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Praktikum 1

1. IP Alpine 2 (sebagai server)

```
GNS3 console      alpine-2  X      alpine-1  X      -      X

/ # ifconfig
eth0      Link encap:Ethernet  HWaddr 16:C2:46:08:73:1B
          inet addr: 192.168.122.220  Bcast:192.168.122.255  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:60 errors:0 dropped:3 overruns:0 frame:0
          TX packets:13 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:11892 (11.6 KiB)  TX bytes:3642 (3.5 KiB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

/ #
```

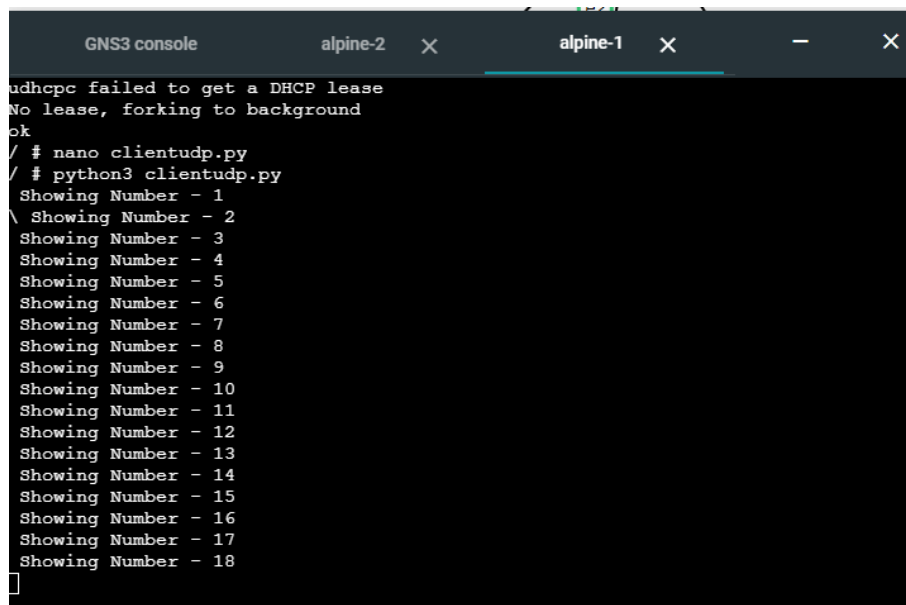
2. Code serverudp.py

```
progjar2 > Answer > serverudp.py > ...
1  import socket
2
3  SERVER_IP = '192.168.122.220'
4  SERVER_PORT = 5003
5
6  sck = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
7  sck.bind((SERVER_IP, SERVER_PORT))
8
9  while True:
10     data, addr = sck.recvfrom(1024)
11     print("Recieved ", data)
12     print("Sent by : " , addr)
```

3. Code clientudp.py

```
progjar2 > Answer > clientudp.py > ...
1  import socket
2  import time
3
4  TARGET_IP = "192.168.122.220"
5  TARGET_PORT = 5003
6
7  sck = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
8  number = 0
9  while True:
10     number = number+1
11     msg = " Showing Number - {} " . format(number)
12     print(msg)
13     sck.sendto(msg.encode(), (TARGET_IP, TARGET_PORT))
14     time.sleep(1)
```

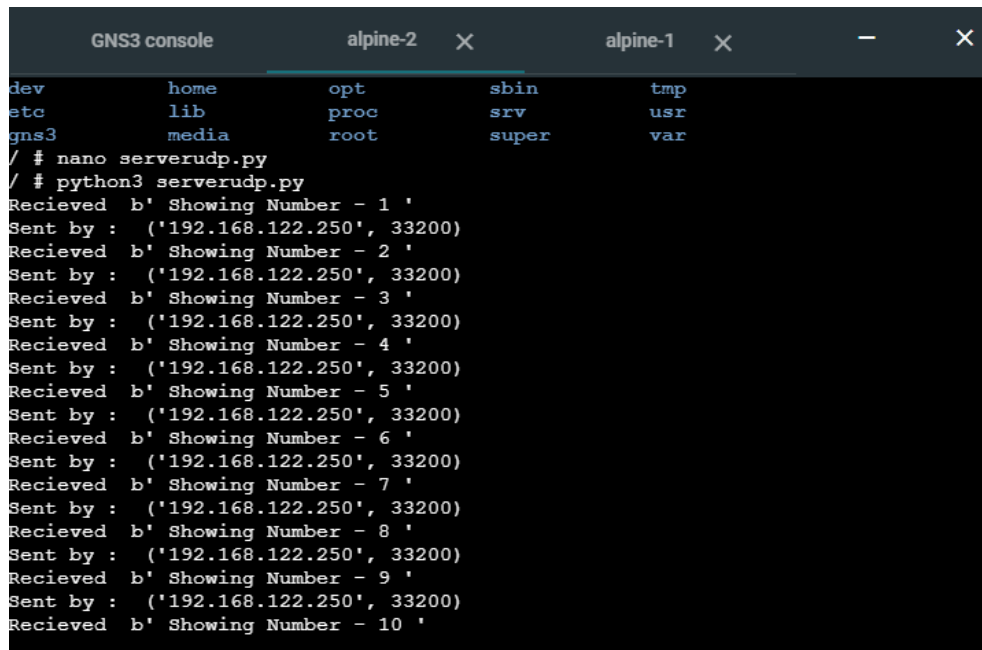
4. Hasil Run program clientudp.py pada alpine-1



The screenshot shows a terminal window with multiple tabs. The active tab is 'alpine-1'. The terminal output shows the execution of a Python script named 'clientudp.py'. The script prints a series of messages from 'Showing Number - 1' to 'Showing Number - 18'. The messages are printed in a single column, with each line starting with a backslash character. The terminal window has a dark background and a light-colored text.

```
GNS3 console  alpine-2  alpine-1
udhcpd failed to get a DHCP lease
No lease, forking to background
ok
/ # nano clientudp.py
/ # python3 clientudp.py
Showing Number - 1
\ Showing Number - 2
Showing Number - 3
Showing Number - 4
Showing Number - 5
Showing Number - 6
Showing Number - 7
Showing Number - 8
Showing Number - 9
Showing Number - 10
Showing Number - 11
Showing Number - 12
Showing Number - 13
Showing Number - 14
Showing Number - 15
Showing Number - 16
Showing Number - 17
Showing Number - 18
```

5. Hasil Run program serverudp.py pada alpine-2



```
GNS3 console  alpine-2  alpine-1
dev            home      opt            sbin          tmp
etc            lib        proc          srv           usr
gns3           media     root          super         var
/ # nano serverudp.py
/ # python3 serverudp.py
Recieved b' Showing Number - 1 '
Sent by : ('192.168.122.250', 33200)
Recieved b' Showing Number - 2 '
Sent by : ('192.168.122.250', 33200)
Recieved b' Showing Number - 3 '
Sent by : ('192.168.122.250', 33200)
Recieved b' Showing Number - 4 '
Sent by : ('192.168.122.250', 33200)
Recieved b' Showing Number - 5 '
Sent by : ('192.168.122.250', 33200)
Recieved b' Showing Number - 6 '
Sent by : ('192.168.122.250', 33200)
Recieved b' Showing Number - 7 '
Sent by : ('192.168.122.250', 33200)
Recieved b' Showing Number - 8 '
Sent by : ('192.168.122.250', 33200)
Recieved b' Showing Number - 9 '
Sent by : ('192.168.122.250', 33200)
Recieved b' Showing Number - 10 '
```

