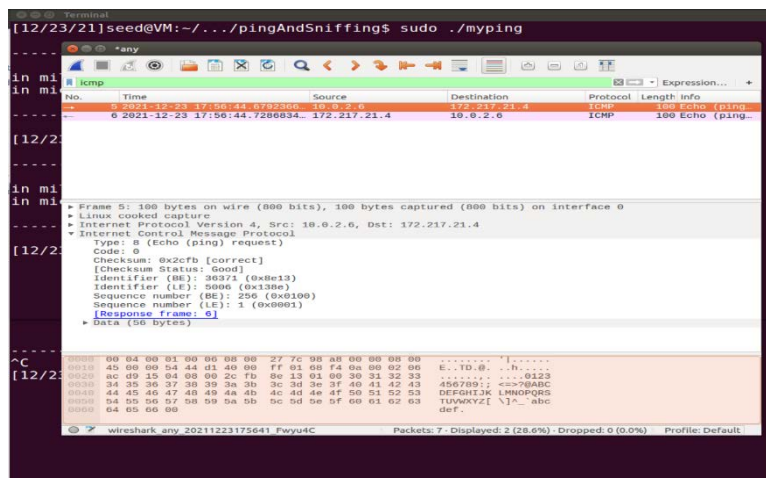
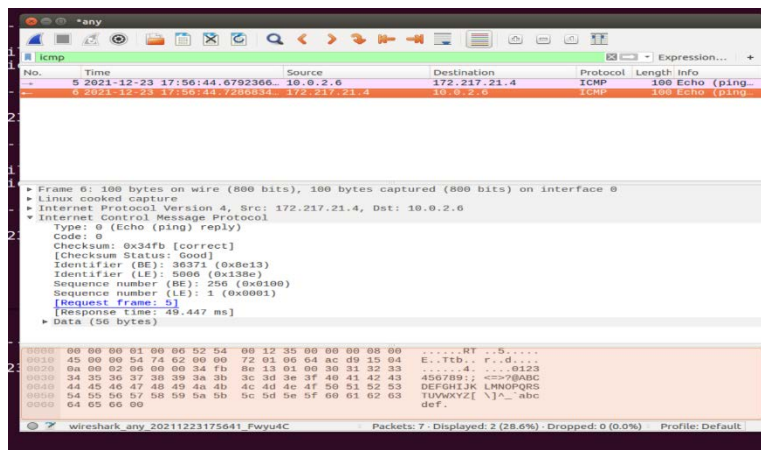


Part 1

sent a ping message (echo) to www.google.com:

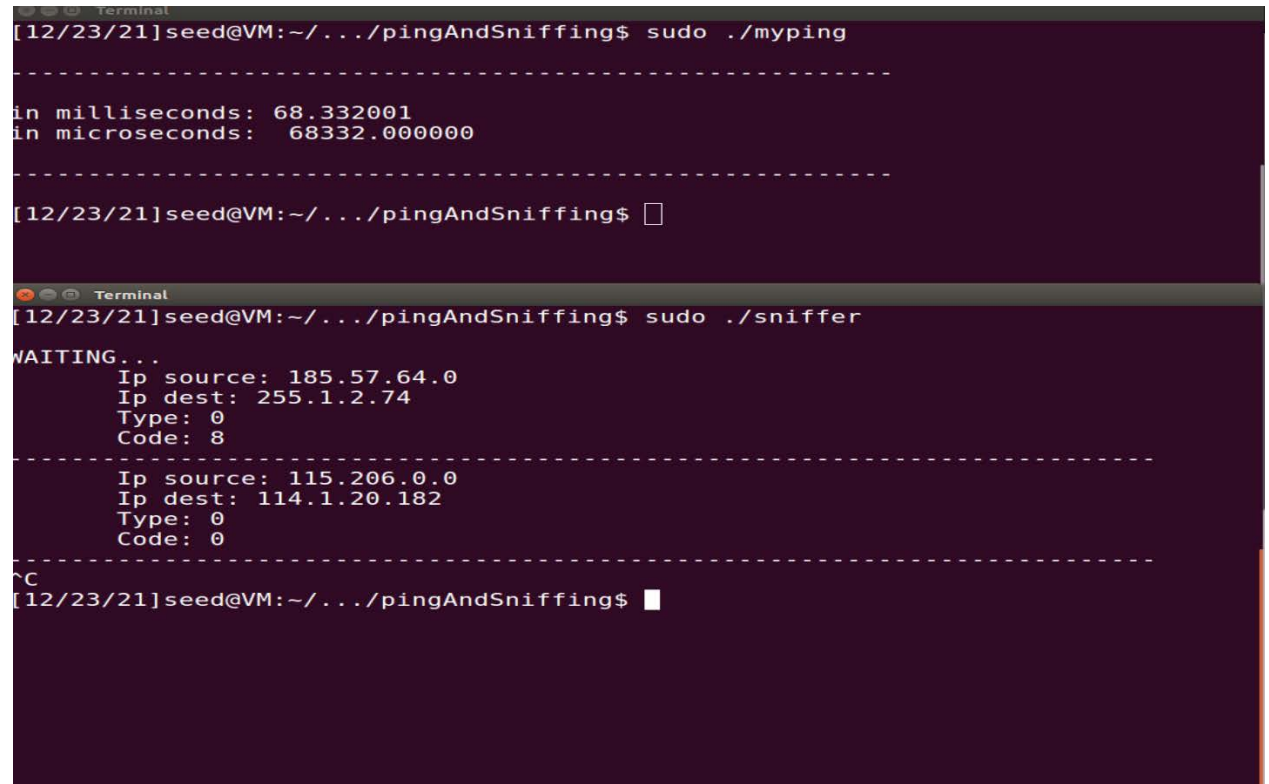
```
Terminal
[12/23/21]seed@VM:~/.../pingAndSniffing$ sudo ./myping
-----
in milliseconds: 68.332001
in microseconds: 68332.000000
-----
[12/23/21]seed@VM:~/.../pingAndSniffing$
```

the wireshark capture:



Part 2

After sending the ping message, you can see that the message was captured by the sniffer



The image consists of two terminal window screenshots. The top terminal shows the execution of a ping command and its timing results. The bottom terminal shows the execution of a sniffer command, which captures and displays the details of the ping packets, including source and destination IP addresses, type, and code.

```
[12/23/21]seed@VM:~/.../pingAndSniffing$ sudo ./myping
-----
in milliseconds: 68.332001
in microseconds: 68332.000000
-----

[12/23/21]seed@VM:~/.../pingAndSniffing$ █

Terminal
[12/23/21]seed@VM:~/.../pingAndSniffing$ sudo ./sniffer
WAITING...
  Ip source: 185.57.64.0
  Ip dest: 255.1.2.74
  Type: 0
  Code: 8
-----
  Ip source: 115.206.0.0
  Ip dest: 114.1.20.182
  Type: 0
  Code: 0
-----
^C
[12/23/21]seed@VM:~/.../pingAndSniffing$ █
```