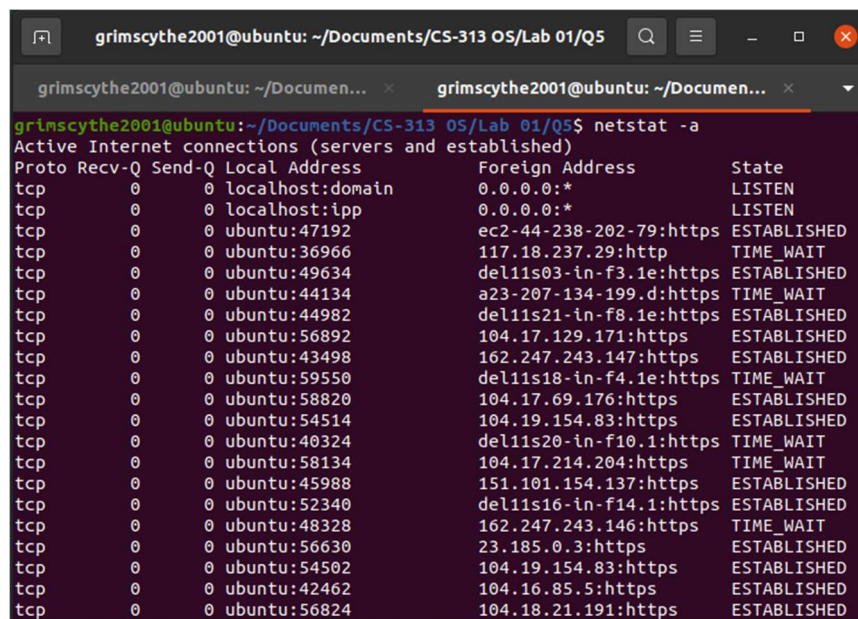**Q.5.** Generate a text file with name <rollnumber_myfile4>. Explain in short with example the following commands and save it in the text file you have created. The commands are: { netstat, telnet, tcpdump, ssh, ping, dmesg, ps, kill, sleep, xargs }

Commands:

1. **netstat:** This command line utility lists out all the TCP and UDP socket connections, as well as the Unix socket connections.
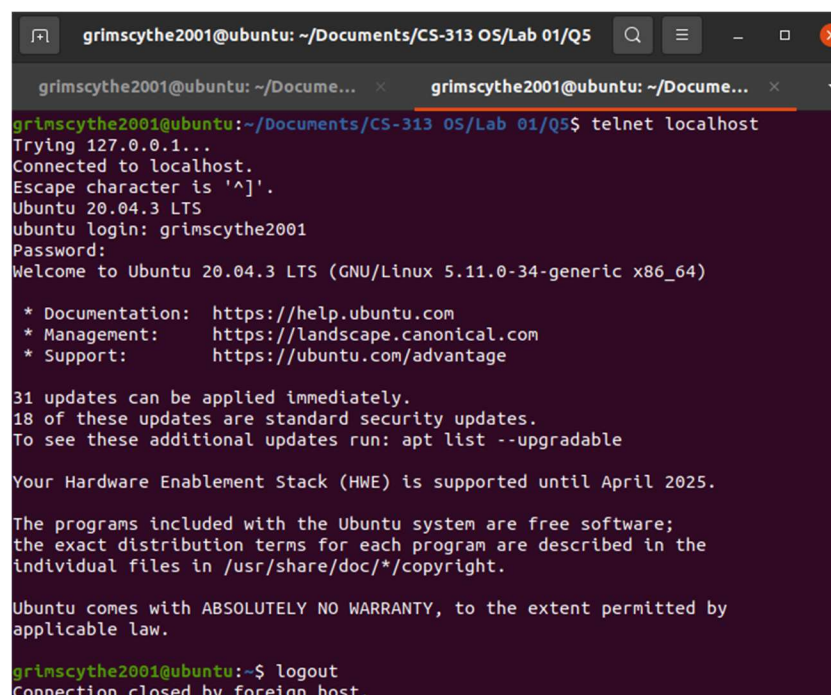
   Example: $netstat -a

2. **telnet:** This command is used to establish a remote connection over a TCP/IP network with a system.

   Example: $telnet localhost

3. **tcdump:** This command line utility is used to capture and inspect on-going network traffic to and from the current system.
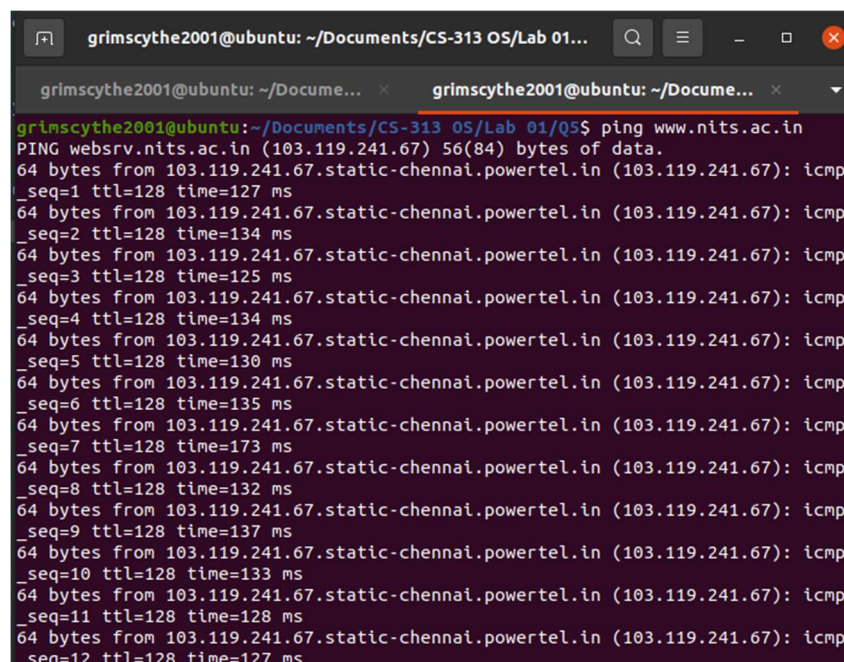
   Example: $sudo tcpdump -vv

4. **ssh:** This command line utility is used to encrypt a connection between a client and a server. SSH stands for Secure Shell, which is a cryptographic network protocol.

5. **ping:** This command line utility is used to troubleshoot, test and diagnose network connectivity issues.
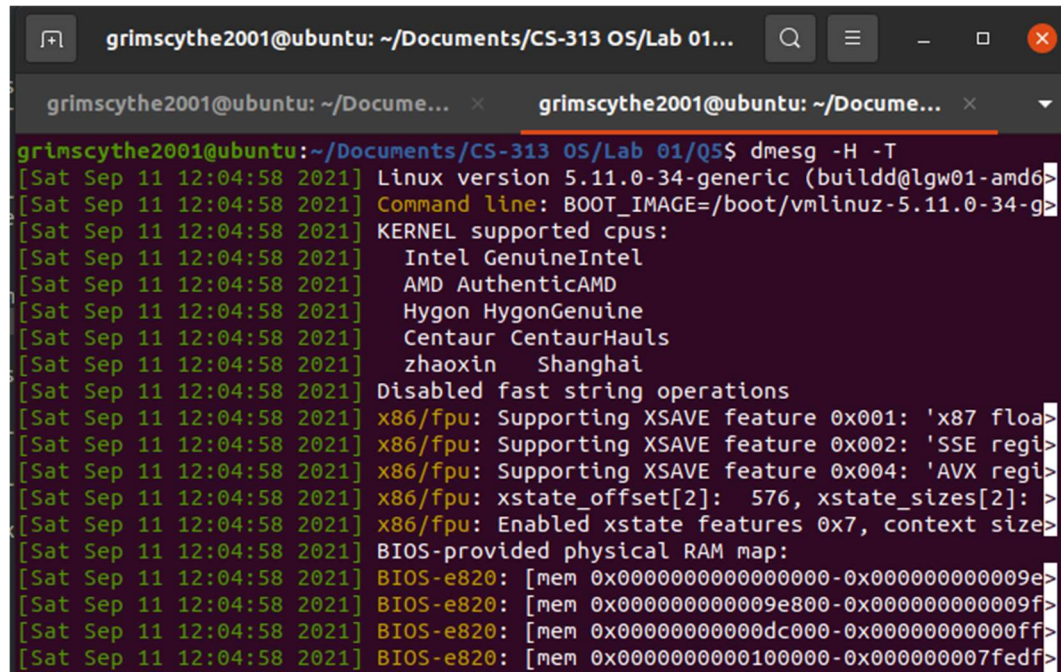
   Example: $ping www.nits.ac.in

6. **dmesg:** This command line utility is used to print and control the kernel ring buffer.

   Example: $dmesg -H -T

7. **ps:** This command line utility is used to find information about a running instance of a program, called process. the command ps stands for Process Status.
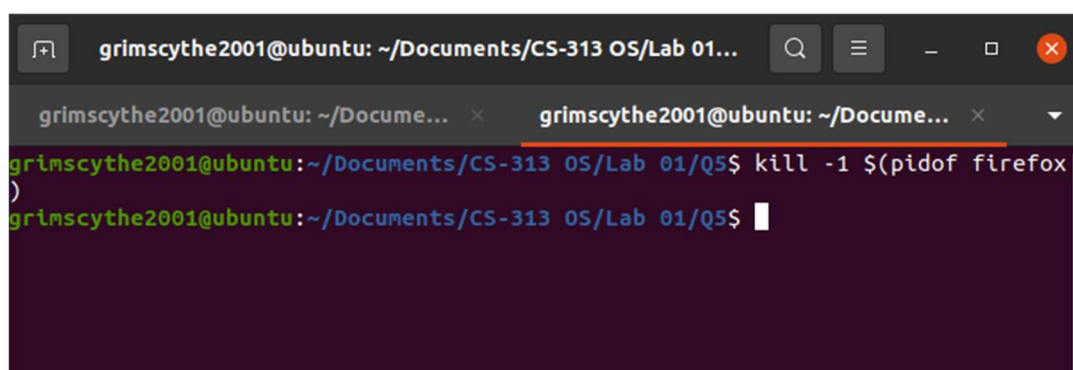
   Example: $ps u

8. **kill:** This command line utility is used to terminate errant application processes.
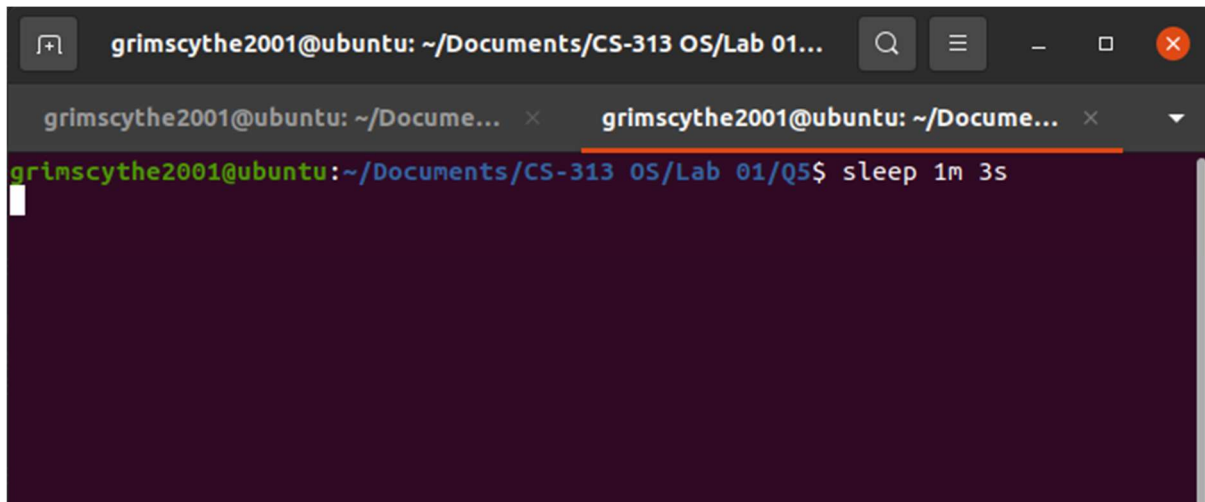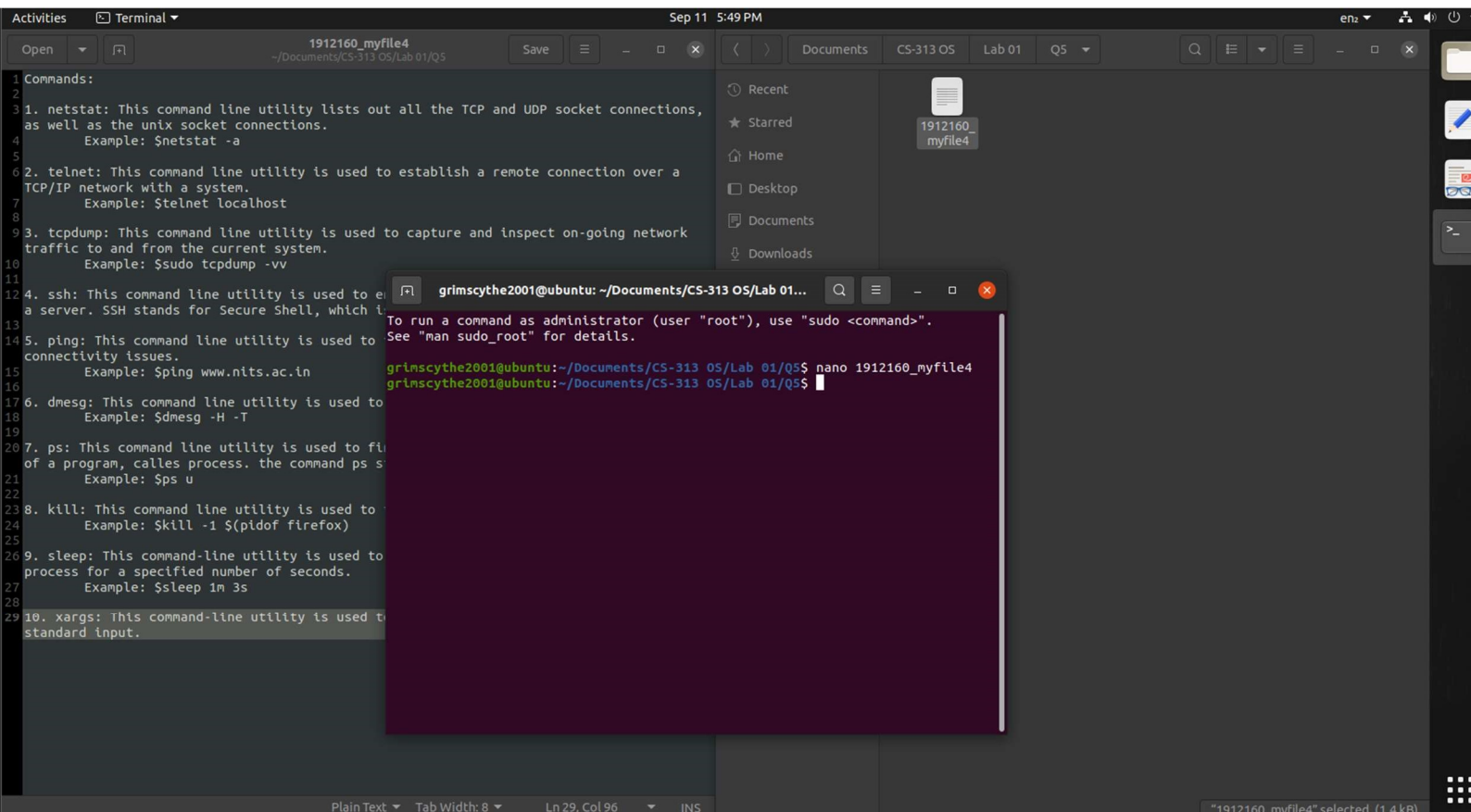
   Example: $kill -1 $(pidof firefox)

9. **sleep:** This command-line utility is used to suspend the execution of the calling process for a specified number of seconds.

   Example: $sleep 1m 3s

10. **xargs:** This command-line utility is used to build and execute commands from standard input.