

Week Report 3

Completed work for week 3

Lab 3 Notes 3

Practice 2: Accessing the bash shell

```
moobler@moobler-VirtualBox:~$ bash --version
GNU bash, version 5.2.21(1)-release (x86_64-pc-linux-gnu)
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There is NO WARRANTY, to the extent permitted by law.
moobler@moobler-VirtualBox:~$
```

Practice 3: Using the command history

```
90  ls Downloads/ Pictures/ Music/ Documents/
91  clear
92  ls -a
93  clear
94  ls -a Downloads/
95  ls -lA Downloads/
96  ls -lAh Downloads/
97  ls -lAh --time-style=+%D Downloads/
98  man ls
99  bash --version
100 clear
101 date
102 echo "hello world"
103 uname -a
104 history
moobler@moobler-VirtualBox:~$ !102
echo "hello world"
hello world
moobler@moobler-VirtualBox:~$ echo "hello"
hello
moobler@moobler-VirtualBox:~$ !!world
echo "hello"world
helloworld
moobler@moobler-VirtualBox:~$
```

Practice 4: My first shell script

```
moobler@moobler-VirtualBox:~$ bash ~/scripts/hello.sh
hello world
I am learning linux
this is my first shell script
moobler@moobler-VirtualBox:~$
```

Practice 5: Using man

```
moobler@moobler-VirtualBox:~$ uname -a
Linux moobler-VirtualBox 6.11.0-17-generic #17~24.04.2-Ubuntu SMP PREEMPT_DYNAMIC
C Mon Jan 20 22:48:29 UTC 2 x86_64 x86_64 x86_64 GNU/Linux
moobler@moobler-VirtualBox:~$ uname -n
moobler-VirtualBox
moobler@moobler-VirtualBox:~$ uname -i -o
x86_64 GNU/Linux
moobler@moobler-VirtualBox:~$
```

Practice 6: Using help

```

For example, try 'man man'.
moobler@moobler-VirtualBox:~$ date
Fri Mar  7 10:27:24 PM EST 2025
moobler@moobler-VirtualBox:~$ whatis
whatis what?
moobler@moobler-VirtualBox:~$ ls
cis106      Downloads  Public          snap
Desktop     Music      'Screenshot from 2025-02-19 18-06-53.png'  Templates
Documents   Pictures   scripts         Videos
moobler@moobler-VirtualBox:~$ pwd
/home/moobler
moobler@moobler-VirtualBox:~$ apt
apt 2.7.14 (amd64)
Usage: apt [options] command

apt is a commandline package manager and provides commands for
searching and managing as well as querying information about packages.
It provides the same functionality as the specialized APT tools,
like apt-get and apt-cache, but enables options more suitable for
interactive use by default.

Most used commands:
list - list packages based on package names
search - search in package descriptions
show - show package details
install - install packages
reinstall - reinstall packages
remove - remove packages
autoremove - automatically remove all unused packages
update - update list of available packages
upgrade - upgrade the system by installing/upgrading packages
full-upgrade - upgrade the system by removing/installing/upgrading packages
edit-sources - edit the source information file
satisfy - satisfy dependency strings

See apt(8) for more information about the available commands.
Configuration options and syntax is detailed in apt.conf(5).
Information about how to configure sources can be found in sources.list(5)

```

Practice 7: Using cheat

```

moobler@moobler-VirtualBox:~$ sudo snap install cheat
[sudo] password for moobler:
cheat 4.4.0.build.2 from Michael (bernermic) installed
moobler@moobler-VirtualBox:~$ apt
apt 2.7.14 (amd64)
Usage: apt [options] command

apt is a commandline package manager and provides commands for
searching and managing as well as querying information about packages.
It provides the same functionality as the specialized APT tools,
like apt-get and apt-cache, but enables options more suitable for
interactive use by default.

Most used commands:
list - list packages based on package names
search - search in package descriptions
show - show package details
install - install packages
reinstall - reinstall packages
remove - remove packages
autoremove - automatically remove all unused packages

```

Practice 1: Managing software

```
moobler@moobler-VirtualBox:~$ sudo apt remove bastet
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libboost-program-options1.83.0
Use 'sudo apt autoremove' to remove it.
The following packages will be REMOVED:
  bastet
0 upgraded, 0 newly installed, 1 to remove and 44 not upgraded.
After this operation, 214 kB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 169193 files and directories currently installed.)
Removing bastet (0.43-7build1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for desktop-file-utils (0.27-2build1) ...
moobler@moobler-VirtualBox:~$ sudo apt purge bastet
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libboost-program-options1.83.0
Use 'sudo apt autoremove' to remove it.
The following packages will be REMOVED:
  bastet*
0 upgraded, 0 newly installed, 1 to remove and 44 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
(Reading database ... 169183 files and directories currently installed.)
Purging configuration files for bastet (0.43-7build1) ...
moobler@moobler-VirtualBox:~$
```

Practice 3: Installing and removing snaps

```
moobler@moobler-VirtualBox:~$ sudo snap install tetris-in-racket
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed
moobler@moobler-VirtualBox:~$ sudo snap remove tetris-in-racket
tetris-in-racket removed
moobler@moobler-VirtualBox:~$
```