

Week Report 3

Completed work for week 3

[notes3.md](#)

[lab3.md](#)

Practice Screenshots

Practice 3

```

1:luella@Letranger:~ 
luella@Letranger:~$ history
  1  clear
  2  history
luella@Letranger:~$ echo "Hello Class!"
Hello Class!
luella@Letranger:~$ sleep 3
luella@Letranger:~$ 
luella@Letranger:~$ watch date
luella@Letranger:~$ 
```

Every 2.0s: date

Wed Feb 18 12:13:06 PM EST 2026

Leatranger: Wed Feb 18 12:13:06 2026

Practice 4

```

1:luella@Letranger:~ 
luella@Letranger:~$ history -c
luella@Letranger:~$ whoami
luella
luella@Letranger:~$ uptime
12:13:58 up 8 days, 18:55,  1 user,  load average: 0.81, 0.86, 1.06
luella@Letranger:~$ hostname
Letranger
luella@Letranger:~$ free -h
total        used        free      shared  buff/cache   available
Mem:       15Gi       7.0Gi     669Mi      926Mi      9.1Gi       6.5Gi
Swap:      4.0Gi      492Ki      4.0Gi
luella@Letranger:~$ df -h /
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/ubuntu--vg-ubuntu--lv 913G  47G  821G  6% /
luella@Letranger:~$ uname -a
Linux Letranger 6.14.0-37-generic #37~24.04.1-Ubuntu SMP PREEMPT_DYNAMIC Thu Nov 20 10:25:38
UTC 2 x86_64 x86_64 x86_64 GNU/Linux
luella@Letranger:~$ du -hd1 /home
21G  /home/luella
21G  /home
luella@Letranger:~$ 
```

top - 12:14:43 up 8 days, 18:56, 1 user, load average: 0.38, 0.74, 1.01
Tasks: 301 total, 1 running, 300 sleeping, 0 stopped, 0 zombie
%Cpu(s): 6.1 us, 2.3 sy, 0.0 ni, 91.2 id, 0.5 wa, 0.0 hi, 0.0 si, 0.0 st
Mem: 15874.8 total, 680.7 free, 7148.3 used, 9301.6 buff/cache
Swap: 4096.0 total, 4095.5 free, 0.5 used. 8726.4 avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+ COMMAND
2673	luella	20	0	4849764	367704	134748	S	13.5	2.3	49:23.89 gnome-shell
67972	luella	20	0	1247080	108320	67068	S	8.3	0.7	1:20.90 t1lix
74248	luella	20	0	685528	46868	36920	S	3.0	0.3	0:01.05 gnome-screensho
13120	luella	20	0	1414.8g	420556	160700	S	2.3	2.6	15:04.08 Discord
32123	luella	20	0	48.9g	407464	270056	S	1.0	2.5	13:42.17 brave
74242	luella	20	0	14504	5972	3744	R	1.0	0.0	0:00.29 top
63425	luella	20	0	1393.6g	115316	78380	S	0.7	0.7	0:57.75 code
73615	root	0	-20	0	0	0	I	0.7	0.0	0:00.13 kworker/u17:1-i915+
128	root	0	-20	0	0	0	I	0.3	0.0	0:03.37 kworker/2:1H-kblock+
2429	luella	9	-11	146548	45136	10432	S	0.3	0.3	3:49.52 pipewire-pulse
2439	luella	20	0	11904	7760	4724	S	0.3	0.0	0:13.56 dbus-daemon
3269	luella	20	0	1992704	175704	98812	S	0.3	1.1	0:20.46 xdg-desktop-por
4365	luella	20	0	583664	95320	62504	S	0.3	0.6	0:31.08 Xwayland
12845	luella	20	0	1392.2g	215164	137360	S	0.3	1.3	3:39.96 Discord
13067	luella	20	0	32.3g	81376	68628	S	0.3	0.5	0:18.78 Discord
16661	luella	20	0	1224.0g	557228	118856	S	0.3	3.4	5:21.18 slack
73747	root	20	0	0	0	0	I	0.3	0.0	0:01.24 kworker/0:1-usb_hu+
73869	luella	20	0	1392.0g	162228	109696	S	0.3	1.0	0:06.59 code

Practice 5

```
1:luela@Letranger:~
```

```
luella@Letranger:~$ lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 002: ID 8087:0a2b Intel Corp. Bluetooth wireless interface
Bus 001 Device 004: ID 04f2:051c Chicony Electronics Co., Ltd HP HD Camera
Bus 001 Device 029: ID 138a:003f Validity Sensors, Inc. VFS495 Fingerprint Reader
Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
luella@Letranger:~$ lspci
00:00.0 Host bridge: Intel Corporation Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers (rev 08)
00:02.0 VGA compatible controller: Intel Corporation Skylake GT2 [HD Graphics 520] (rev 07)
00:14.0 USB controller: Intel Corporation Sunrise Point-LP USB 3.0 eXtensible Controller (rev 21)
00:14.2 Signal processing controller: Intel Corporation Sunrise Point-LP Thermal subsystem (rev 21)
00:15.0 Signal processing controller: Intel Corporation Sunrise Point-LP Serial IO I2C Controller #0 (rev 21)
00:16.0 Communication controller: Intel Corporation Sunrise Point-LP CSME HECI #1 (rev 21)
00:17.0 SATA controller: Intel Corporation Sunrise Point-LP SATA Controller [AHCI mode] (rev 21)
00:1c.0 PCI bridge: Intel Corporation Sunrise Point-LP PCI Express Root Port #2 (rev f1)
00:1c.3 PCI bridge: Intel Corporation Sunrise Point-LP PCI Express Root Port #4 (rev f1)
00:1d.0 PCI bridge: Intel Corporation Sunrise Point-LP PCI Express Root Port #9 (rev f1)
00:1f.0 ISM bridge: Intel Corporation Sunrise Point-LP I2C Controller (rev 21)
00:1f.2 Memory controller: Intel Corporation Sunrise Point-LP FMC (rev 21)
00:1f.3 Audio device: Intel Corporation Sunrise Point-LP HD Audio (rev 21)
00:1f.4 SMBus: Intel Corporation Sunrise Point-LP SMBus (rev 21)
01:00.0 Ethernet controller: Intel Corporation Ethernet Connection I219V (rev 21)
01:00.0 Unassigned class [ff00]: Realtek Semiconductor Co., Ltd. RTB522A PCI Express Card Reader (rev 01)
02:00.0 Network controller: Intel Corporation Wireless 8260 (rev 3a)
03:00.0 Non-Volatile memory controller: Micron/Crucial Technology P2 [Nick P2] / P3 / P3 Plus NVMe PCIe SSD (DRAM-less) (rev 01)
luella@Letranger:~$ lsblk
NAME    MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0      7:0    0   4K  1 loop  /snap/bare/5
loop1      7:1    0 187.8M 1 loop  /snap/bare/588
loop2      7:2    0 187.9M 1 loop  /snap/bare/591
loop3      7:3    0   73.9M 1 loop  /snap/core22/2216
loop4      7:4    0   63.8M 1 loop  /snap/core20/2686
loop5      7:5    0   66.8M 1 loop  /snap/core20/2687
l:luela@Letranger:~
```

```
luella@Letranger:~$ inxi
CPU: dual core Intel Core i5-6200U (~MT MCP-) speed/min/max: 800/400/2800 MHz
Kernel: 6.14.0-37-generic x86_64 Up: 8d 18h 58m Mem: 7.01/15.5 GiB (45.2%)
Storage: 1.36 TiB (3.3% used) Procs: 303 Shell: Bash inxi: 3.3.34
coretemp-isa-0000
Adapter: ISA adapter
Package id 0: +41.0°C (high = +100.0°C, crit = +100.0°C)
Core 0:     +40.0°C (high = +100.0°C, crit = +100.0°C)
Core 1:     +41.0°C (high = +100.0°C, crit = +100.0°C)

pch_skylake-virtual-0
Adapter: Virtual device
temp1:     +37.5°C

BAT0-acpi-0
Adapter: ACPI interface
in0:       10.88 V
curr1:    878.00 mA

iwllwifi_1-virtual-0
Adapter: Virtual device
temp1:     +34.0°C

nvme-pci-0300
Adapter: PCI adapter
Composite: +38.9°C (low = -0.1°C, high = +84.8°C)
(crit = +94.8°C)
Sensor 1: +38.9°C (low = -273.1°C, high = +65261.8°C)
Sensor 2: +42.9°C (low = -273.1°C, high = +65261.8°C)
Sensor 8: +38.9°C (low = -273.1°C, high = +65261.8°C)

acpitz-acpi-0
Adapter: ACPI interface
temp1:     +40.0°C
temp2:     +0.0°C
temp3:     +37.0°C
temp4:     +33.0°C
temp5:     +5.0°C
l:luela@Letranger:~
```

```
luella@Letranger:~$ lscpu
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:         39 bits physical, 48 bits virtual
Byte Order:            Little Endian
CPU(s):                4
On-line CPU(s) list:  0-3
Vendor ID:             GenuineIntel
Model name:            Intel(R) Core(TM) i5-6200U CPU @ 2.30GHz
CPU family:             6
Model:                 78
Thread(s) per core:   2
Core(s) per socket:   2
Socket(s):             1
Stepping:              3
CPU(s) scaling MHz:  32%
CPU max MHz:          2800.0000
CPU min MHz:          400.0000
BogoMIPS:              4800.00
Flags:                fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe sysc all nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pbs nrep_good nopl xtopology nonstop_tsc cpuid aperfmperf pni pcl muuidg dtes64 monitor ds_cpl est tm2 sse3 sdbg fmw cx16 xtr pdcm pcid sse4_1 sse4_2 x2apic movebc popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb pt sbd ibrs ibpb stibp fsgsbase tsc_adjust bmip avx2 smep bmip2 erms invpcid mpx rdseed adx smap clflushopt intel_pt xsaveop xsavec xgetbv1 xaveses othermm ida arat pin pts hwp priority hwp_act_window hwp_epp md_clear flush_lld arch_capabilities
l:luela@Letranger:~
```

```
luella@Letranger:~$ lsmod
Module           Size  Used by
cpuid            12288  0
ccm              20480  6
rfcomm           102400 4
snd_seq_dummy   12288  0
snd_hrtimer     12288  1
snd_ctl_led    24576  0
snd_hda_codec_conexant 32768  1
snd_hda_codec_generic 122880  1 snd_hda_codec_conexant
qtr              53248  2
cmac              12288  2
algif_hash       16384  1
algif_skcipher  12288  1
af_alg            32768  6 algif_hash,algif_skcipher
snd_sof_pci_intel_sk 24576  0
snd_sof_intel_hda_generic 36864  1 snd_sof_pci_intel_sk
soundwire_intel 77824  1 snd_sof_intel_hda_generic
soundwire_cadence 45056  1 soundwire_intel
snd_sof_intel_hda_common 188416  2 snd_sof_intel_hda_generic,snd_sof_pci_intel_sk
snd_soc_hdac_hda 24576  1 snd_sof_intel_hda_common
snd_sof_intel_hda_mlink 45056  3 soundwire_intel,snd_sof_intel_hda_common,snd_sof_intel_hda_generic
bnef            32768  2
snd_sof_intel_hda 24576  2 snd_sof_intel_hda_common,snd_sof_intel_hda_generic
snd_hda_codec_hdmi 98304  1
snd_sof_pci      24576  2 snd_sof_intel_hda_generic,snd_sof_pci_intel_sk
snd_sof_xtensa_dsp 12288  1 snd_sof_intel_hda_generic
snd_sof            393216  5 snd_sof_pci,snd_sof_intel_hda_common,snd_sof_intel_hda_generic,snd_sof_intel_hda_mlink,snd_sof_intel_hda_sk
snd_sof_utils     16384  1 snd_sof
snd_soc_acpi_intel_match 135168  2 snd_sof_intel_hda_generic,snd_sof_pci_intel_sk
snd_soc_acpi_intel_sdca_quirks 12288  1 snd_soc_acpi_intel_match
soundwire_generic_allocation 24576  1 soundwire_intel
snd_soc_acpi     16384  2 snd_soc_acpi_intel_match,snd_sof_intel_hda_generic
soundwire_bus    126976  3 soundwire_intel,soundwire_generic_allocation,soundwire_cadence
snd_soc_sdca     12288  2 snd_soc_acpi_intel_sdca_quirks,soundwire_bus
l:luela@Letranger:~
```

Practice 6

Practice 7

```

1:luella@Letranger:~ 
luella@Letranger:~$ history -c
luella@Letranger:~$ date
Wed Feb 18 12:21:51 PM EST 2026
luella@Letranger:~$ echo "hello world"
hello world
luella@Letranger:~$ uname -a
Linux Letranger 6.14.0-37-generic #37~24.04.1-Ubuntu SMP PREEMPT_DYNAMIC Thu Nov 20 10:25:38
UTC 2 x86_64 x86_64 x86_64 GNU/Linux
luella@Letranger:~$ history
 1 date
 2 echo "hello world"
 3 uname -a
 4 history
luella@Letranger:~$ !#
luella@Letranger:~$ !# 2
2: command not found
luella@Letranger:~$ !2
echo "hello world"
hello world
luella@Letranger:~$ !!
echo "hello world"
hello world
luella@Letranger:~$ echo "hello"
hello
luella@Letranger:~$ !!world
echo "hello"world
helleworld
luella@Letranger:~$ 

```

Practice 8

```

1:luella@Letranger:~ 
SYNOPSIS
    uname [OPTION]...
DESCRIPTION
    Print certain system information. With no OPTION, same as -s.

-a, --all
    print all information, in the following order, except omit -p and -i if un-
known:

-s, --kernel-name
    print the kernel name

-n, --nodename
    print the network node hostname

-r, --kernel-release
    print the kernel release

-v, --kernel-version
    print the kernel version

-m, --machine
    print the machine hardware name

-p, --processor
    print the processor type (non-portable)

-i, --hardware-platform
    print the hardware platform (non-portable)

Manual page uname(1) line 5 (press h for help or q to quit)[]

2:luella@Letranger:~ 
luella@Letranger:~$ uname -s
Linux
luella@Letranger:~$ uname -m
x86_64
luella@Letranger:~$ uname -a
Linux Letranger 6.14.0-37-generic #37~24.04.1-Ubuntu SMP PREEMPT_DYNAMIC Thu Nov 20 10:25:3
8 UTC 2 x86_64 x86_64 x86_64 GNU/Linux
luella@Letranger:~$ uname -i
x86_64
luella@Letranger:~$ free -g
      total        used        free     shared  buff/cache   available
Mem:       15          6          0          0         9          8
Swap:       3          0          0          0          0          0
luella@Letranger:~$ 

3:luella@Letranger:~ 
OPTIONS
    -b, --bytes
        Display the amount of memory in bytes.

    -k, --kibi
        Display the amount of memory in kibibytes. This is the default.

    -m, --mebi
        Display the amount of memory in mebibytes.

    -g, --gibi
        Display the amount of memory in gibibytes.

    --tebi
        Display the amount of memory in tebibytes.

Manual page free(1) line 41 (press h for help or q to quit)[]


```

Practice 9

```

1:luella@Letranger:~ ~
luella@Letranger:~$ free --help
Usage:
  free [options]
Options:
  -b, --bytes      show output in bytes
  --kilo          show output in kilobytes
  --mega          show output in megabytes
  --giga          show output in gigabytes
  --tera          show output in terabytes
  --peta          show output in petabytes
  -k, --kibibytes  show output in kibibytes
  -m, --mebibytes  show output in mebibytes
  -g, --gibibytes  show output in gibibytes
  --tebibytes     show output in tebibytes
  --pebibytes     show output in pebibytes
  -h, --human      show human-readable output
  --si             use powers of 1000 not 1024
  -l, --lohi        show detailed low and high memory statistics
  -L, --line        show output on a single line
  -t, --total       show total for RAM + swap
  -v, --committed   show committed memory and commit limit
  -s N, --seconds N repeat printing every N seconds
  -c N, --count N   repeat printing N times, then exit
  -w, --wide         wide output
  --help           display this help and exit
  -V, --version     output version information and exit
For more details see free(1).
luella@Letranger:~$ █

2:luella@Letranger:~ ~
luella@Letranger:~$ man --help
Usage: man [OPTION...] [SECTION] PAGE...
Main modes of operation:
  -f, --whatis      equivalent to whatis
  -k, --apropos     equivalent to apropos
  -K, --global-apropos  search for text in all pages
  -l, --local-file  interpret PAGE argument(s) as local filename(s)
  -w, --where, --path, --location
                           print physical location of man page(s)
  -W, --where-cat, --location-cat

3:luella@Letranger:~ ~
luella@Letranger:~$ date --help
Usage: date [OPTION...] [+FORMAT]
      or: date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]
Display date and time in the given FORMAT.
With -s, or with [MMDDhhmm[[CC]YY][.ss]], set the date and time.

Mandatory arguments to long options are mandatory for short options too.
  -d, --date=STRING    display time described by STRING, not 'now'
                      --debug            annotate the parsed date,
                                         and warn about questionable usage to stderr
  -f, --file=DATEFILE  like --date; once for each line of DATEFILE
                      -I[FMT], --iso-8601[-FMT]  output date/time in ISO 8601 format.
                                         FMT='date' for date only (the default),
                                         'hours', 'minutes', 'seconds', or 'ns'
                                         for date and time to the indicated precision.
Example: 2006-08-14T02:34:56-06:00

4:luella@Letranger:~ ~
luella@Letranger:~$ whatis ls
ls (6)          - display animations aimed to correct users who accidentally enter L...
ls (1)          - list directory contents
luella@Letranger:~$ whatis pwd
pwd (1)         - print name of current/working directory
luella@Letranger:~$ whatis apt
apt (8)         - command-line interface
luella@Letranger:~$ whatis sudo
sudo (8)        - execute a command as another user
luella@Letranger:~$ █

5:luella@Letranger:~ ~
luella@Letranger:~$ man --help
Usage: man [OPTION...] [SECTION] PAGE...
Main modes of operation:
  -c, --config-file=FILE  use this user configuration file
  -d, --debug            emit debugging messages
  -D, --default          reset all options to their default values
  --warnings[=WARNINGS]  enable warnings from groff

6:luella@Letranger:~ ~
luella@Letranger:~$ date --help
Usage: date [OPTION...] [+FORMAT]
      or: date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]
Display date and time in the given FORMAT.
With -s, or with [MMDDhhmm[[CC]YY][.ss]], set the date and time.

Mandatory arguments to long options are mandatory for short options too.
  -d, --date=STRING    display time described by STRING, not 'now'
                      --debug            annotate the parsed date,
                                         and warn about questionable usage to stderr
  -f, --file=DATEFILE  like --date; once for each line of DATEFILE
                      -I[FMT], --iso-8601[-FMT]  output date/time in ISO 8601 format.
                                         FMT='date' for date only (the default),
                                         'hours', 'minutes', 'seconds', or 'ns'
                                         for date and time to the indicated precision.
Example: 2006-08-14T02:34:56-06:00

```

Practice 10

```
t:luella@LeTranger:~ ~
luella@LeTranger:~$ tldr echo
Error: Page cache not found. Please run 'tldr --update' to download the cache.

Note: You can optionally enable automatic cache updates by adding the
following config to your config file:

[updates]
auto_update = true

The path to your config file can be looked up with 'tldr --show-paths'.
To create an initial config file, use 'tldr --seed-config'.

You can find more tips and tricks in our docs:
https://dbrgn.github.io/tealdeer/config\_updates.html
luella@LeTranger:~$ tldr date
Error: Page cache not found. Please run 'tldr --update' to download the cache.

Note: You can optionally enable automatic cache updates by adding the
following config to your config file:

[updates]
auto_update = true

The path to your config file can be looked up with 'tldr --show-paths'.
To create an initial config file, use 'tldr --seed-config'.

You can find more tips and tricks in our docs:
https://dbrgn.github.io/tealdeer/config\_updates.html
luella@LeTranger:~$ S
```

```
2:luella@LeTranger:~ ~
luella@LeTranger:~$ sudo snap install cheat
snap "cheat" is already installed, see 'snap help refresh'
luella@LeTranger:~$ cheat
Usage:
  cheat [options] [<cheatsheet>]

Options:
  --init           Write a default config file to stdout
  -a --all          Search among all cheatpaths
  -c --colorize    Colorize output
  -d --directories List cheatsheet directories
  -e --edit=<cheatsheet> Edit <cheatsheet>
  -l --list         List cheatsheets
  -p --path=<name> Return only sheets found on cheatpath <name>
  -r --regex        Treat search <phrase> as a regex
  -s --search=<phrase> Search cheatsheets for <phrase>

3:luella@LeTranger:~ ~
# To show the current timezone:
date +%Z

# To show date in RFC format with TZ offset:
date -R

# To show date in UTC/GMT:
date -u

# To show date in CET:
TZ=CET date

# To show the time on the west coast of the US (use tzselect(1) to find TZ):
TZ='America/Los_Angeles' date
luella@LeTranger:~$
```

```
4:luella@LeTranger:~ ~
luella@LeTranger:~$
```