

Week Report 3

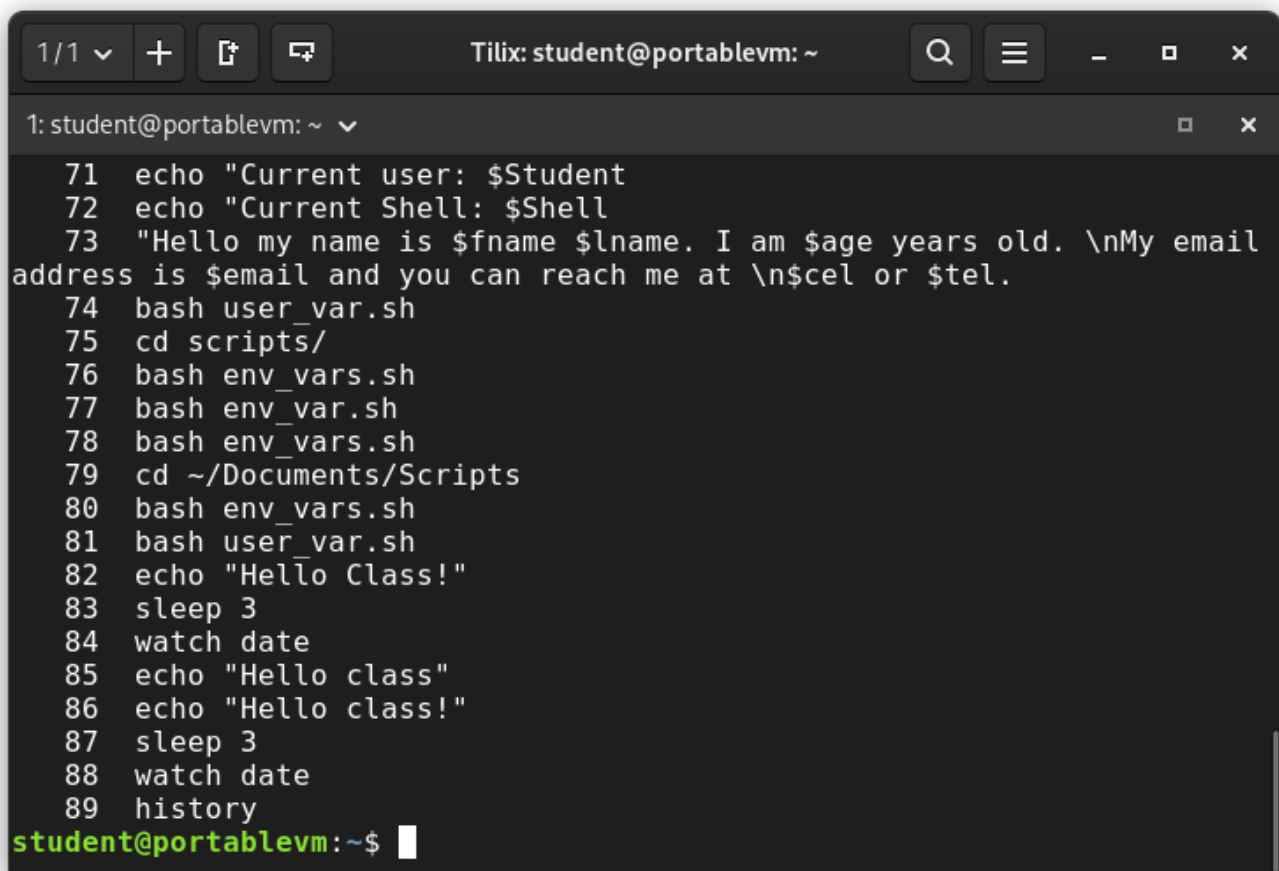
Completed work for week 3

Lab 3: <https://github.com/Typing-Kevin/cis106/tree/main/labs/lab3>

Notes 3: <https://github.com/Typing-Kevin/cis106/tree/main/notes/notes3>

Practice Screen shots

Practice 3

A screenshot of a terminal window titled "Tilix: student@portablevm: ~". The terminal shows a script being executed with line numbers 71 through 89. The script prints the current user and shell, a greeting with variables, and then runs several shell scripts. It also includes sleep and watch commands. The prompt at the bottom is "student@portablevm:~\$".

```
1: student@portablevm: ~  
71 echo "Current user: $Student  
72 echo "Current Shell: $Shell  
73 "Hello my name is $fname $lname. I am $age years old. \nMy email  
address is $email and you can reach me at \n$cel or $tel.  
74 bash user_var.sh  
75 cd scripts/  
76 bash env_vars.sh  
77 bash env_var.sh  
78 bash env_vars.sh  
79 cd ~/Documents/Scripts  
80 bash env_vars.sh  
81 bash user_var.sh  
82 echo "Hello Class!"  
83 sleep 3  
84 watch date  
85 echo "Hello class"  
86 echo "Hello class!"  
87 sleep 3  
88 watch date  
89 history  
student@portablevm:~$
```

Practice 4

```
1/1 + T T Tilix: student@portablevm: ~
1: student@portablevm: ~
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
1691 student 20 0 3974576 209764 72068 S 28.2 10.4 7:14.52 gnome-shell
5274 student 20 0 1055452 107520 68876 S 5.3 5.3 0:09.01 tilix
5774 student 20 0 2736048 250564 88736 S 1.3 12.4 0:05.15 Isolated Web Co
115 root 20 0 0 0 0 I 1.0 0.0 0:06.34 kworker/u8:4-events_unbound
2410 student 20 0 3665512 411964 163980 S 0.7 20.4 3:27.33 firefox-esr
5817 student 20 0 2423212 74316 60392 S 0.3 3.7 0:01.39 Web Content
6261 student 20 0 11072 6460 4148 R 0.3 0.3 0:00.07 top
1 root 20 0 24108 9636 7068 S 0.0 0.5 0:02.34 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root 20 0 0 0 0 S 0.0 0.0 0:00.00 pool workqueue release
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/R-kvfree_rcu_reclaim
5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/R-rcu_gp
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/R-sync_wq
7 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/R-slub_flushwq
8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/R-netns
11 root 0 -20 0 0 0 I 0.0 0.0 0:00.19 kworker/0:0H-kblockd
13 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/R-mm_percpu_wq
14 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_kthread
15 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_rude_kthread
16 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_trace_kthread
17 root 20 0 0 0 0 S 0.0 0.0 0:00.23 ksoftirqd/0
18 root 20 0 0 0 0 I 0.0 0.0 0:02.94 rcu_preempt
19 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_exp_par_gp_kthread worker/0
20 root 20 0 0 0 0 S 0.0 0.0 0:00.02 rcu_exp_gp_kthread_worker
student@portablevm:~$ uname -a
Linux portablevm 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) x86_64 GNU/Linux
student@portablevm:~$ du -hd1 /home
1.9G /home/student
1.9G /home
student@portablevm:~$
```

Practice 5

```
1/1 + T T Tilix: student@portablevm: ~
1: student@portablevm: ~
ata_generic 12288 0
libahci 61440 1 ahci
ata_piix 45056 0
ohci_pci 20480 0
ehci_pci 16384 0
ehci_hcd 110592 1 ehci_pci
ohci_hcd 65536 1 ohci_pci
libata 462848 4 ata_piix,libahci,ahci,ata_generic
drm 774144 7 vmwgfx,drm_kms_helper,drm_ttm_helper,ttm
usbcore 409600 5 ohci_hcd,ehci_pci,usbhid,ehci_hcd,ohci_pci
psmouse 217088 0
crc32_pclmul 12288 0
crc32c_intel 16384 2
video 81920 0
scsi_mod 327680 4 sd_mod,libata,sg,sr_mod
i2c_piix4 28672 0
wmi 28672 1 video
serio_raw 16384 0
button 24576 0
battery 28672 0
usb_common 16384 3 ohci_hcd,usbcore,ehci_hcd
scsi_common 16384 5 scsi_mod,sd_mod,libata,sg,sr_mod
i2c_smbus 16384 1 i2c_piix4
e1000 180224 0
student@portablevm:~$ sensors
BAT0-acpi-0
Adapter: ACPI interface
in0: 10.00 V
power1: 0.00 W
student@portablevm:~$
```

Practice 6

```

1/1  +  [ ]  [ ]  Tilix: student@portablevm: ~  🔍  ☰  -  □  ×
1: student@portablevm: ~  ▾  □  ×

student@portablevm:~$ figlet "student"

  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 / _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ \
| _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ |
 \ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ /

student@portablevm:~$ cowsay "Hello World"

< Hello World >
-----
      \      ^__^
       (oo)\_______
            (__)\       )\/\
                ||----w |
                ||     ||

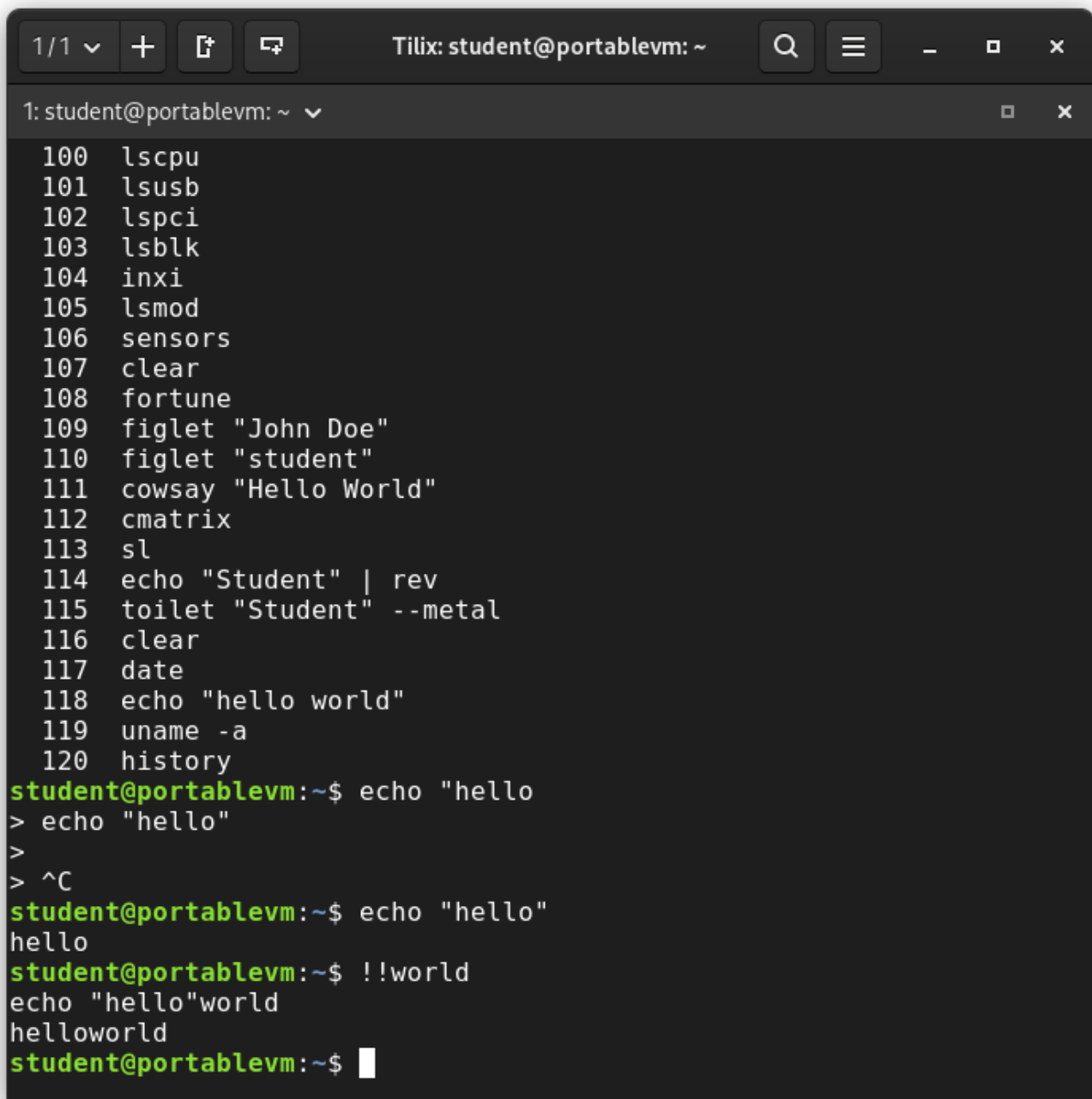
student@portablevm:~$ cmatrix
student@portablevm:~$ sl
bash: sl: command not found
student@portablevm:~$ echo "Student" | rev
tnedutS
student@portablevm:~$ toilet "Student" --metal

  mmmm      m      #
#"      "  mm#mm  m  m  mmm#  mmm  m mm  mm#mm
"#mmm      #  #  #  #"  "#  #"  #  #"  #
      "#  #  #  #  #  #  #"  ""  #  #  #
"mmm#"  ""mm  ""mm"#  "#m##  "#mm"  #  #  "mm

student@portablevm:~$ █

```

Practice 7



```
1/1 + [ ] [ ] Tilix: student@portablevm: ~ [Q] [≡] [ ] [X]
1: student@portablevm: ~ [ ] [X]
100  lscpu
101  lsusb
102  lspci
103  lsblk
104  inxi
105  lsmod
106  sensors
107  clear
108  fortune
109  figlet "John Doe"
110  figlet "student"
111  cowsay "Hello World"
112  cmatrix
113  sl
114  echo "Student" | rev
115  toilet "Student" --metal
116  clear
117  date
118  echo "hello world"
119  uname -a
120  history
student@portablevm:~$ echo "hello"
> echo "hello"
>
> ^C
student@portablevm:~$ echo "hello"
hello
student@portablevm:~$ !!world
echo "hello"world
helloworld
student@portablevm:~$
```

Practice 8

```

1/1  +  [?]  [x]  Tilix: student@portablevm: ~  [Q]  [≡]  -  □  ×

1: student@portablevm: ~  □  ×  2: student@portablevm: ~  □  ×
Report any translation bugs to <https://translationproject.org/team/>
SEE ALSO
  arch(1), uname(2)
Full documentation
<https://www.gnu.org/software/coreutils/uname>
or available locally via:
info '(coreutils) uname invocation'
Packaged by Debian (9.7-3)
Copyright © 2025 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later
<https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
GNU core... June 2025  UNAME(1)
) (press h for help or q to quit)

FREE(1)                                User C
ommands                                FREE(1)

NAME
  free - Display amount of free and used memory in the system

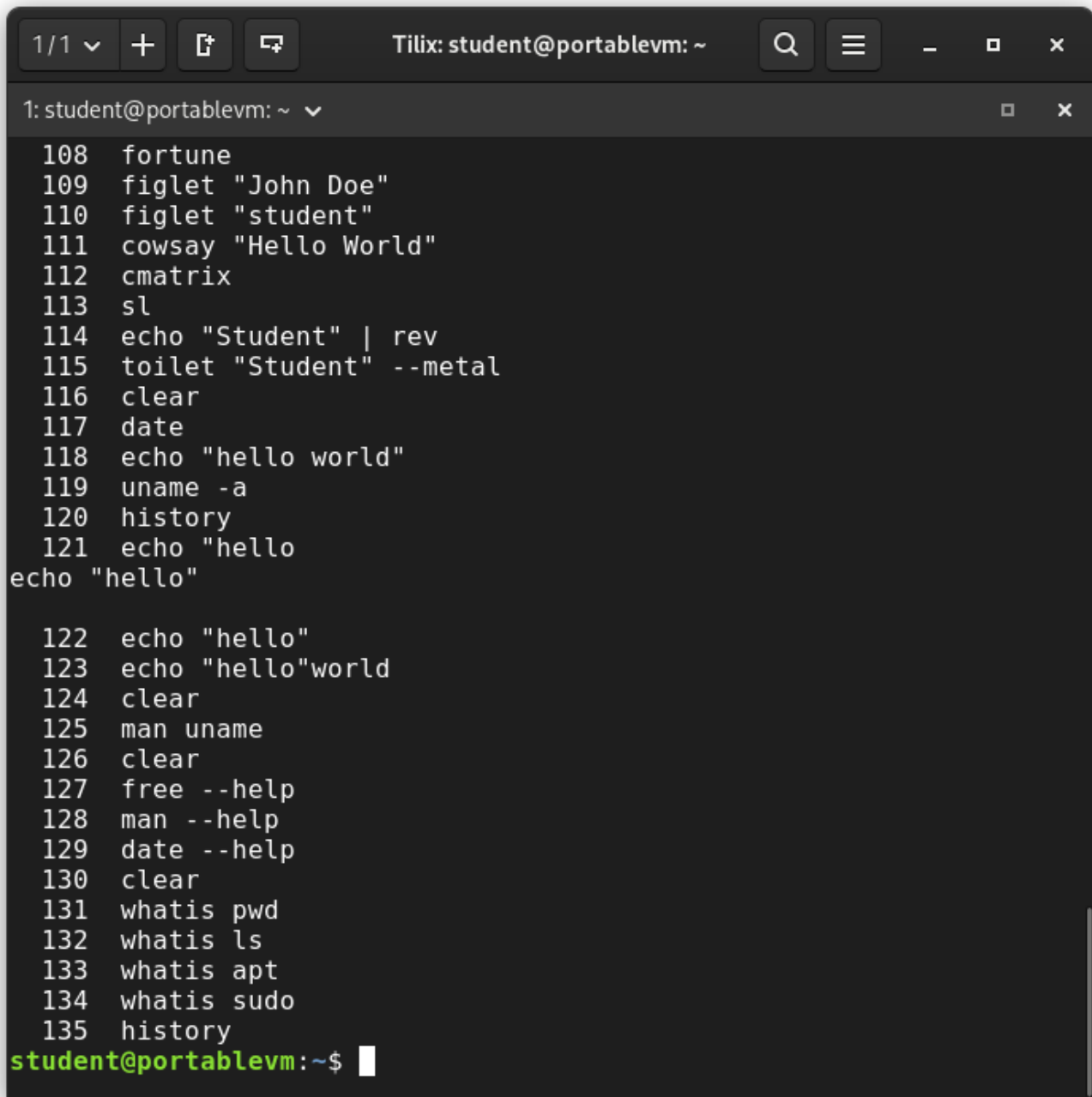
SYNOPSIS
  free [options]

DESCRIPTION
  free displays the total amount of free and used physical and swap memory in the system, as well as the buffers and caches used by the kernel. The information is gathered by parsing /proc/meminfo. The displayed columns are:

  total Total usable memory (MemTotal and SwapTotal in /proc/meminfo). This includes the physical and swap

```

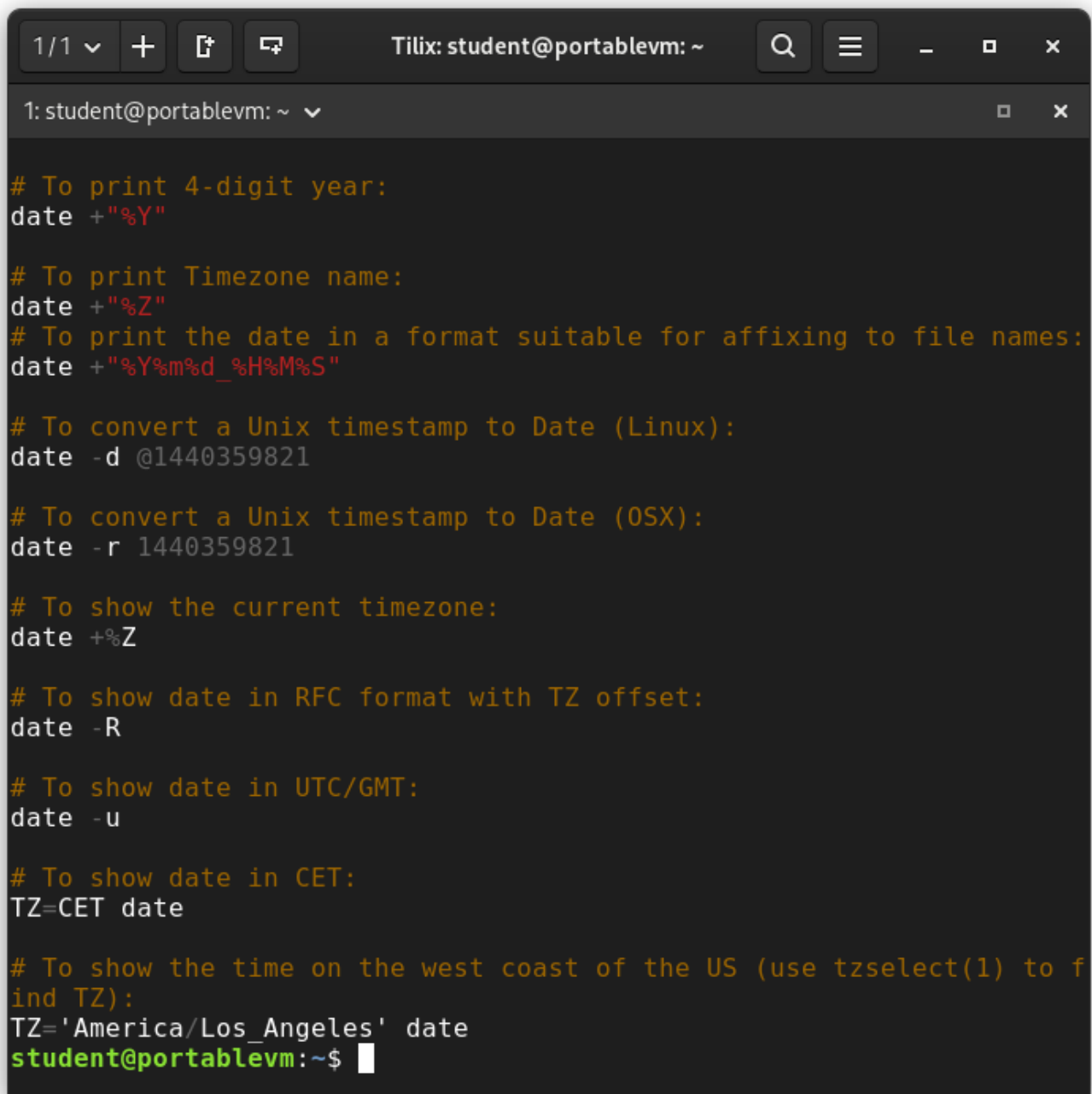
Practice 9



```
1/1 + [ ] [ ] Tilix: student@portablevm: ~ 🔍 ☰ - □ ×
1: student@portablevm: ~ ▾ □ ×
108 fortune
109 figlet "John Doe"
110 figlet "student"
111 cowsay "Hello World"
112 cmatrix
113 sl
114 echo "Student" | rev
115 toilet "Student" --metal
116 clear
117 date
118 echo "hello world"
119 uname -a
120 history
121 echo "hello
echo "hello"

122 echo "hello"
123 echo "hello"world
124 clear
125 man uname
126 clear
127 free --help
128 man --help
129 date --help
130 clear
131 whatis pwd
132 whatis ls
133 whatis apt
134 whatis sudo
135 history
student@portablevm:~$
```

Practice 10

A terminal window titled 'Tilix: student@portablevm: ~' with standard window controls. The terminal shows a series of commands and their outputs for the 'date' command. The commands include formatting for 4-digit years, timezones, file names, converting Unix timestamps to dates for Linux and OSX, showing the current timezone, RFC format with TZ offset, UTC/GMT, CET, and setting a specific timezone for the west coast of the US.

```
1/1  +  [icon] [icon]  Tilix: student@portablevm: ~  [search] [menu] [zoom] [close]

1: student@portablevm: ~  [close]

# To print 4-digit year:
date +%Y

# To print Timezone name:
date +%Z

# To print the date in a format suitable for affixing to file names:
date +%Y%m%d_%H%M%S

# To convert a Unix timestamp to Date (Linux):
date -d @1440359821

# To convert a Unix timestamp to Date (OSX):
date -r 1440359821

# 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
student@portablevm:~$
```