

# Week Report 3

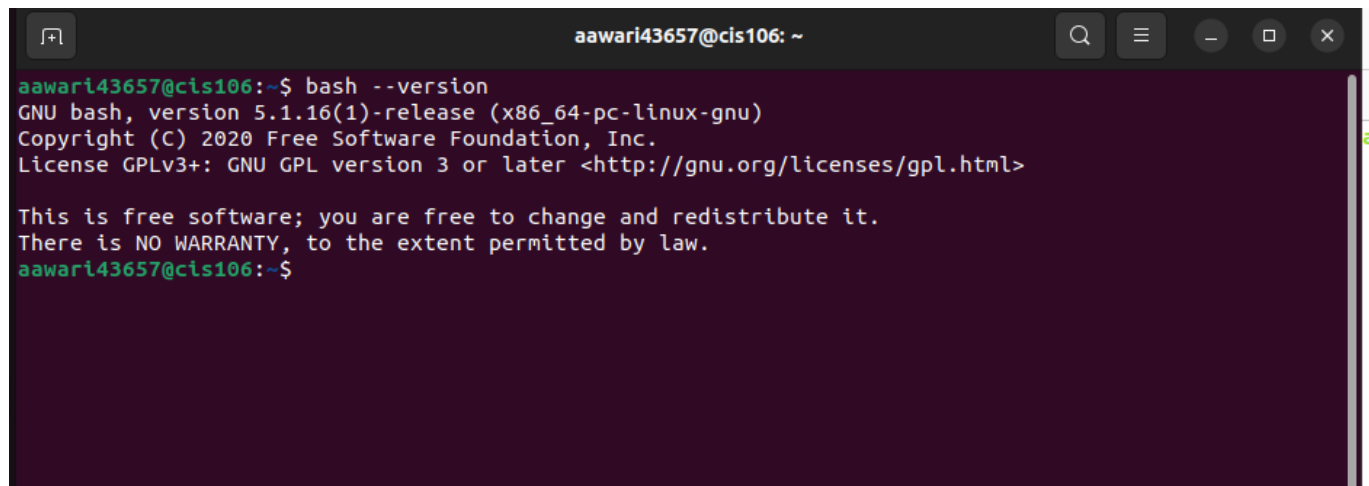
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## Completed work for Week 3

[Lab3 Notes1](#)

## Bash Shell Practices

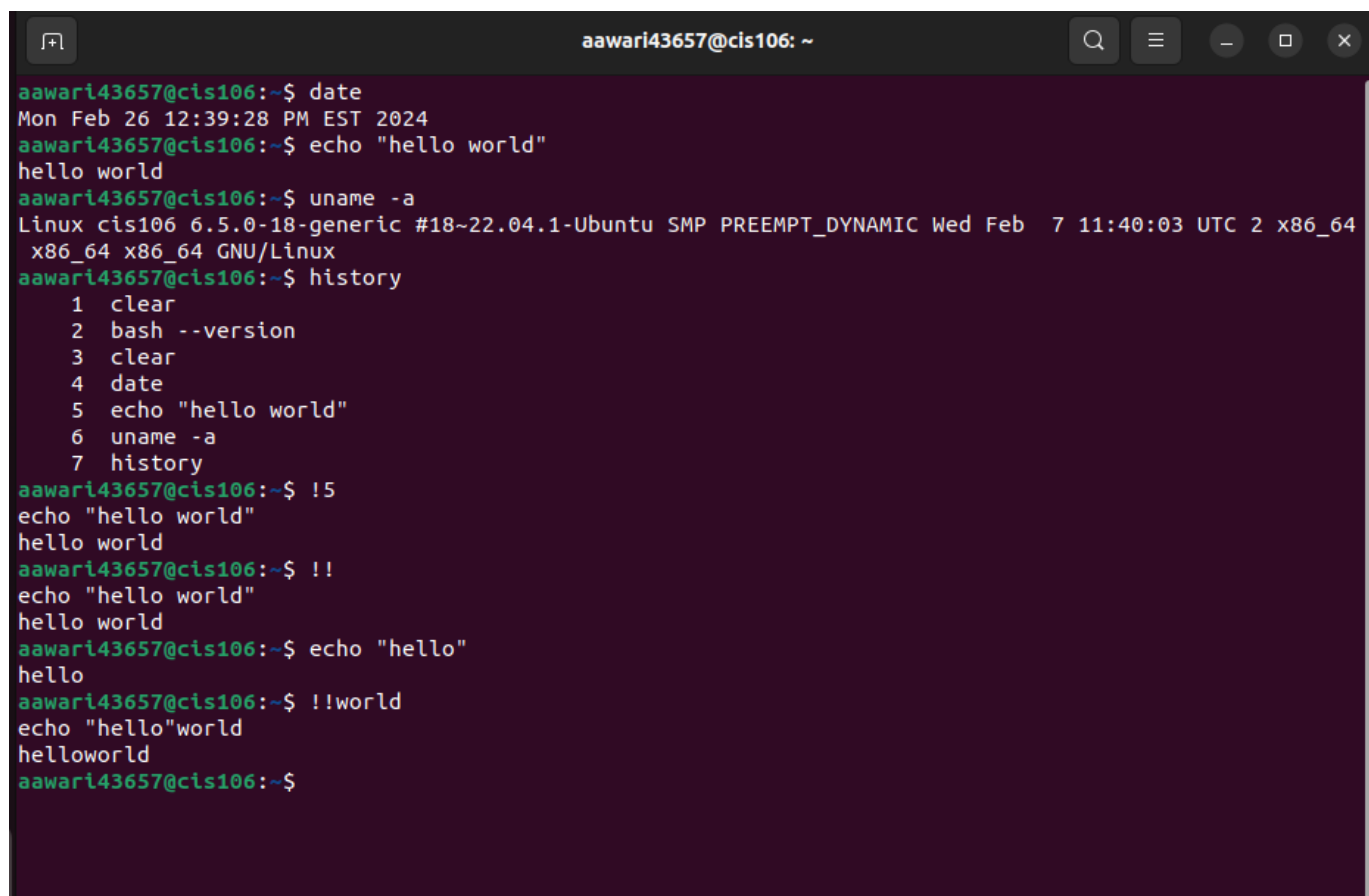
### Practice 2

A terminal window titled 'aawari43657@cis106: ~' with search, menu, and window control icons. The user runs 'bash --version', displaying GNU bash version 5.1.16(1)-release (x86\_64-pc-linux-gnu) and its license information. The user then runs 'clear' to clear the screen.

```
aawari43657@cis106:~$ bash --version
GNU bash, version 5.1.16(1)-release (x86_64-pc-linux-gnu)
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://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.
aawari43657@cis106:~$
```

### Practice 3

A terminal window titled 'aawari43657@cis106: ~' with search, menu, and window control icons. The user runs a series of commands: 'date' (showing Mon Feb 26 12:39:28 PM EST 2024), 'echo "hello world"', 'uname -a' (showing system details), 'history' (showing command history), '!5' (re-running the 5th command), '!!' (re-running the last command), 'echo "hello"', '!!world' (re-running the last command with 'world' appended), and 'clear' to clear the screen.

```
aawari43657@cis106:~$ date
Mon Feb 26 12:39:28 PM EST 2024
aawari43657@cis106:~$ echo "hello world"
hello world
aawari43657@cis106:~$ uname -a
Linux cis106 6.5.0-18-generic #18~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Wed Feb  7 11:40:03 UTC 2 x86_64
x86_64 x86_64 GNU/Linux
aawari43657@cis106:~$ history
 1  clear
 2  bash --version
 3  clear
 4  date
 5  echo "hello world"
 6  uname -a
 7  history
aawari43657@cis106:~$ !5
echo "hello world"
hello world
aawari43657@cis106:~$ !!
echo "hello world"
hello world
aawari43657@cis106:~$ echo "hello"
hello
aawari43657@cis106:~$ !!world
echo "hello"world
helloworld
aawari43657@cis106:~$
```

## Practice 4

```
aawari43657@cis106: ~  
aawari43657@cis106:~$ bash ~/scripts/hello.sh  
Hellow World  
I am learning linux  
This is my first shell script  
aawari43657@cis106:~$
```

## Practice 5

```
aawari43657@cis106: ~  
aawari43657@cis106:~$ man uname  
aawari43657@cis106:~$ man date  
aawari43657@cis106:~$ man df  
aawari43657@cis106:~$ man free  
aawari43657@cis106:~$ man clear  
aawari43657@cis106:~$ man history  
aawari43657@cis106:~$ man free  
aawari43657@cis106:~$  
1: aawari43657@cis106: ~  
aawari43657@cis106:~$ uname -s  
Linux  
aawari43657@cis106:~$ uname -n  
cis106  
aawari43657@cis106:~$ uname -l  
x86_64  
aawari43657@cis106:~$ uname -o  
GNU/Linux  
aawari43657@cis106:~$ free -g  
              total        used        free      shared  buff/cache   available  
Mem:           1            0            0            0            0            0  
Swap:          4            0            3            0            0            0  
aawari43657@cis106:~$
```

## Practice 6

```
1: aawari43657@cis106: ~  
aawari43657@cis106:~$ whatis ls  
ls (1) - list directory contents  
aawari43657@cis106:~$ whatis pwd  
pwd (1) - print name of current/working directory  
aawari43657@cis106:~$ whatis apt  
apt (8) - command-line interface  
aawari43657@cis106:~$ whatis sudo  
sudo (8) - execute a command as another user  
aawari43657@cis106:~$
```

## Practice 7

```

1: aawari43657@cis106: ~
libgnome-games-support-common libgucharmap-2-90-7 libgweather-4-0
libgweather-4-common libido3-0.1-0 libindicator3-7 liblightdm-gobject-1-0
libqqwing2v5 libunity-gtk2-parser0 libunity-gtk3-parser0
libunity-settings-daemon1 python3-systemd ubuntu-touch-sounds unity-greeter
unity-gtk-module-common unity-gtk2-module unity-gtk3-module
unity-settings-daemon unity-settings-daemon-schemas
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 24 not upgraded.
aawari43657@cis106:~$ cheat tar | pygmentize
# To extract an uncompressed archive:
tar -xvf /path/to/foo.tar

# To extract a .tar in specified directory:
tar -xvf /path/to/foo.tar -C /path/to/destination/

# To create an uncompressed archive:
tar -cvf /path/to/foo.tar /path/to/foo/

# To extract a .tgz or .tar.gz archive:
tar -xzvf /path/to/foo.tgz
tar -xzvf /path/to/foo.tar.gz

# To create a .tgz or .tar.gz archive:
tar -czvf /path/to/foo.tgz /path/to/foo/
tar -czvf /path/to/foo.tar.gz /path/to/foo/

# To list the content of an .tgz or .tar.gz archive:
tar -tzvf /path/to/foo.tgz
tar -tzvf /path/to/foo.tar.gz

# To extract a .tar.bz2 archive:
tar -xjvf /path/to/foo.tar.bz2

# To create a .tar.bz2 archive:
tar -cjvf /path/to/foo.tar.bz2 /path/to/foo/

# To list the content of an .tar.bz2 archive:
tar -tjvf /path/to/foo.tar.bz2

# To create a .tgz archive and exclude all jpg,gif,... from the tgz:
tar -czvf /path/to/foo.tgz --exclude=*.{jpg,gif,png,wmv,flv,tar.gz,zip} /path/to/foo/

# To use parallel (multi-threaded) implementation of compression algorithms:
tar -Z ... -> tar -Ipigz ...
tar -J ... -> tar -Ipbzip2 ...
tar -J ... -> tar -Ipxz ...

# To append a new file to an old tar archive:
tar -rf <archive.tar> <new-file-to-append>
aawari43657@cis106:~$ █

```

## Managing Software Practices

### Practice 1

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Tilix: aawari43657@cis106: ~

1: aawari43657@cis106: ~

2: aawari43657@cis106: ~

BASTET(6) Games Manual BASTET(6)

NAME

bastet - Tetris(r) clone with "bastard" block-choosing AI

SYNOPSIS

bastet

DESCRIPTION

**bastet** (short for "bastard tetris") is a Tetris(r) clone which tries to give you the worst possible block. Playing bastet can be a painful experience, especially if you usually make "canyons" and wait for the long I-shaped block.

USAGE

**bastet** tries to conform as much as possible to the tetris guidelines. We refer to those for the rules of the game. In the starting menu, you can configure the key bindings; the default ones are:

DOWN moves the tetromino down (one single step)

LEFT moves the tetromino left

RIGHT moves the tetromino right

SPACE rotates CW

UP rotates CCW

ENTER drops the tetromino as far down as possible (hard drop)

P pauses the game

CTRL+C exits the game without any further prompt

Manual page bastet(6) line 1/80 60% (press h for help or q to quit)

Practice 2

```
1: aawari43657@cis106: ~  
aawari43657@cis106:~$ sudo apt install ./Downloads/code_1.86.2-1707854558_amd64.deb  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Note, selecting 'code' instead of './Downloads/code_1.86.2-1707854558_amd64.deb'  
code is already the newest version (1.86.2-1707854558).  
The following packages were automatically installed and are no longer required:  
  accountsservice-ubuntu-schemas  
  alacarte appport-symptoms bamfdaemon  
  gnome-applets gnome-applets-data  
  gnome-panel gnome-panel-data  
  guile-2.2-libs indicator-applet  
  indicator-application  
  indicator-appmenu  
  indicator-bluetooth  
  indicator-common indicator-datetime  
  indicator-keyboard  
  indicator-messages indicator-power  
  indicator-printers  
  indicator-session indicator-sound  
  jayatana libaccounts-glib0  
  libbamf3-2  
  libboost-program-options1.74.0  
  libcpufreq0 libfcitx-config4  
  libfcitx-gclient1 libfcitx-utils0  
  libgnome-games-support-1-3  
  libgnome-games-support-common  
  libgucharmap-2-90-7 libgweather-4-0  
  libgweather-4-common libido3-0.1-0  
  libindicator3-7  
  liblightdm-gobject-1-0 libqqwing2v5  
  libunity-gtk2-parser0  
  libunity-gtk3-parser0  
  libunity-settings-daemon1  
  python3-systemd ubuntu-touch-sounds  
  unity-greeter  
  unity-gtk-module-common  
  unity-gtk2-module unity-gtk3-module  
  unity-settings-daemon  
  unity-settings-daemon-schemas  
Use 'sudo apt autoremove' to remove them.  
0 upgraded, 0 newly installed, 0 to remove and 24 not upgraded.  
aawari43657@cis106:~$
```

Practice 3

```
1: aawari43657@cis106: ~  
aawari43657@cis106:~$ snap search tetris clone  
Name      Version  Publisher  Notes  Summary  
tetris-in-racket 1.2-2    brunonova  -      Tetris clone developed in Racket  
v1tetris   0.57     bladernr   -      Console based version of Tetris  
fairtris  3.0.0.4  chronoscz  -      A fair implementation of Classic Tetris® video game.  
pnetris    1.0      kz6fittycent -      Poor Man's Tetris Clone  
ltris-windows 1.2.3    marlsag1967 -      A free Tetris clone that follows the original rules but  
t adds some extras  
aawari43657@cis106:~$ sudo snap install tetris-in-racket -y  
error: unknown flag '-y'  
aawari43657@cis106:~$ sudo snap install tetris-in-racket  
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed  
aawari43657@cis106:~$ tetris-in-racket  
Fontconfig warning: "/etc/fonts/conf.d/10-hinting-slight.conf", line 4: unknown element "its:rules"  
Fontconfig warning: "/etc/fonts/conf.d/10-hinting-slight.conf", line 5: unknown element "its:translateRule"  
Fontconfig error: "/etc/fonts/conf.d/10-hinting-slight.conf", line 5: invalid attribute 'translate'  
Fontconfig error: "/etc/fonts/conf.d/10-hinting-slight.conf", line 5: invalid attribute 'selector'  
Fontconfig error: "/etc/fonts/conf.d/10-hinting-slight.conf", line 6: invalid attribute 'xmlns:its'  
Fontconfig error: "/etc/fonts/conf.d/10-hinting-slight.conf", line 6: invalid attribute 'version'  
Fontconfig warning: "/etc/fonts/conf.d/10-hinting-slight.conf", line 8: unknown element "description"  
Fontconfig warning: "/etc/fonts/conf.d/10-scale-bitmap-fonts.conf", line 4: unknown element "its:rules"  
Fontconfig warning: "/etc/fonts/conf.d/10-scale-bitmap-fonts.conf", line 5: unknown element "its:translateRule"  
Fontconfig error: "/etc/fonts/conf.d/10-scale-bitmap-fonts.conf", line 5: invalid attribute 'translate'  
Fontconfig error: "/etc/fonts/conf.d/10-scale-bitmap-fonts.conf", line 5: invalid attribute 'selector'  
Fontconfig error: "/etc/fonts/conf.d/10-scale-bitmap-fonts.conf", line 6: invalid attribute 'xmlns:its'  
Fontconfig error: "/etc/fonts/conf.d/10-scale-bitmap-fonts.conf", line 6: invalid attribute 'version'  
Fontconfig warning: "/etc/fonts/conf.d/10-scale-bitmap-fonts.conf", line 8: unknown element "descripti  
..."
```

```
2: aawari43657@cis106: ~  
aawari43657@cis106:~$
```

