# Notes 1: Bash Shell

Commands cover in lecture

## echo

**Defenition:** Display line of text

**Usage** echo+option+string

**Examples**

- Display a line of text wihtout new line
    - echo -n "hello world"
- Display a line with a horizontal tab
    - echo -e "\t"hello world"
- Display 2 lines in one command
    - echo -e "line 1\nline 2"
- Display 2 lines with 1 command, second starting with a tab
    - echo -e "line 1\n\tline 2"
- Display 2 lines with 1 command that starts with tab
    - echo -e "\tline1\n\tline2"

## date

**Defnitions:** Print or set system date and time

**Usage** date + option

**Examples**

- Display current date
    - date
- Display current date in rfc 5322 format
    - date -R

## free

**Definition:** Displays the amount of free mem

**Usage** free + options

**Examples**

- Displays ram info
    - free
- Displays ram info in bytes
    - free -b
- Displays ram info in gigabytes

- free -g

## uname

**Definition:** Displays infro about your sys

**Usage** uname + options

**Examples**

- Displays kernel name
  - uname -s
- Displays network node hostname
  - uname -n
- displays hardware name
  - uname -m

## history

**Definition:** Displays shell command history

**Usage** history + options

**Examples**

- Displays terminal user input history
  - history
- Clears history
  - history -c
- Write current history into a file
  - history -w

## man

**Definition:** Display a manual page for commands.

**Usage** man + option + section

**Examples**

- Opens a man page of commands
  - man
- equivalent to whatis
  - man -f
- equivalent to apropos
  - man -k

## apt

**Definition:** A set of tools for managing Debian packages

**Usage** apt + option + command

**Examples**

- Lists packages based on packages name
  - apt list
- Installs package
  - apt install
- Removes package
  - apt remove

## snap

**Definition:** App packages for desktop, cloud and IoT that are easy to install, secure, crossplatfrom and dependency-free.

**Usage** snap + command + options

**Examples**

- Queries the store for available packages.
  - snap find
- Shows detailed information about snaps.
  - snap info
- Installs the named snaps on the system.
  - snap install

## flatpak

**Definition:** Next generation techonology for packaging, distributing and manging software in linux

**Usage** flatpak + options + command

**Examples**

- Install an application or runtime
  - flatpak install
- Update an application or runtime
  - flatpak update
- Uinstal an application or runtime
  - flatpak uninstall