ASSIGNMENT 1.2

\$ pwd:

pwd prints the full pathname of the current working directory.

Syntax:

 $pwd \triangleleft$ $pwd -L \triangleleft$ $pwd -P \triangleleft$

- -P: Print a fully resolved name for the current directory, in which all components of the name are actual directory names, and not symbolic links.
- -L: If the environment variable PWD contains an absolute name of the current directory with no "." or ".." components, then output those contents, even if they contain symbolic links. Otherwise, fall back to default (-P) behavior.

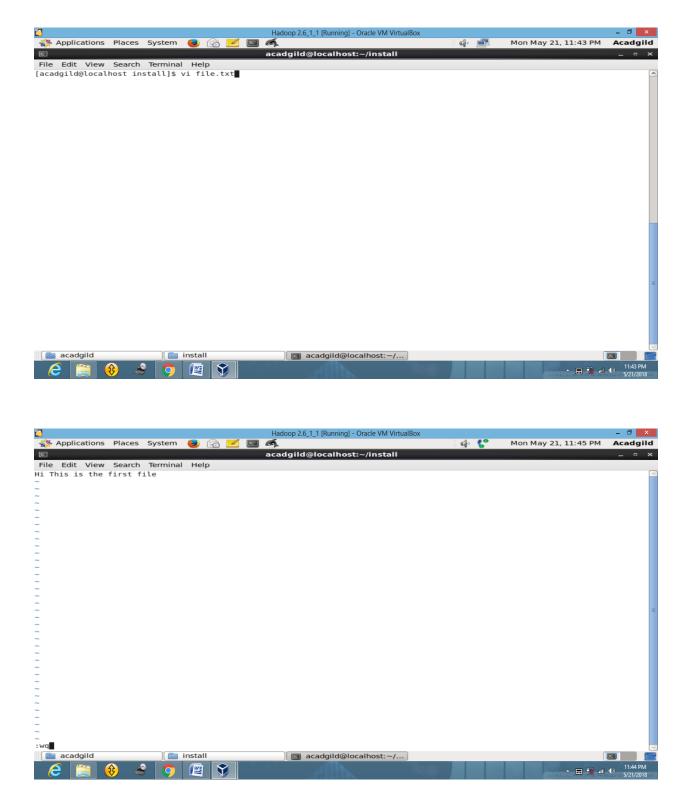


<u>\$ vi:</u>

The vi command is used to start the vi editor. It is a visual text editor which when executed with a file, it shows the file with options to insert, save and quit.

Syntax:

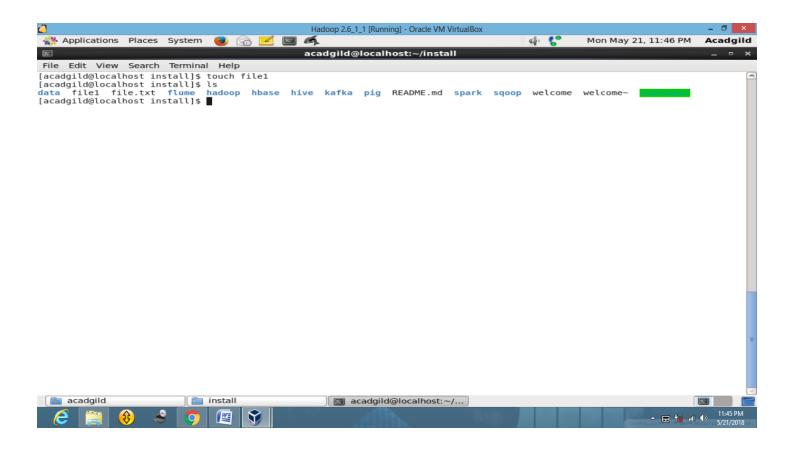
vi < filename > 4



\$ touch:

touch is a standard Unix command-line interface program which is used to update the access date and/or modification date of a file or directory. In its default usage, it is the equivalent of creating or opening a file and saving it without any change to the file contents.

Syntax:



\$ mkdir:

The mkdir (make directory) command is used to make a new directory.

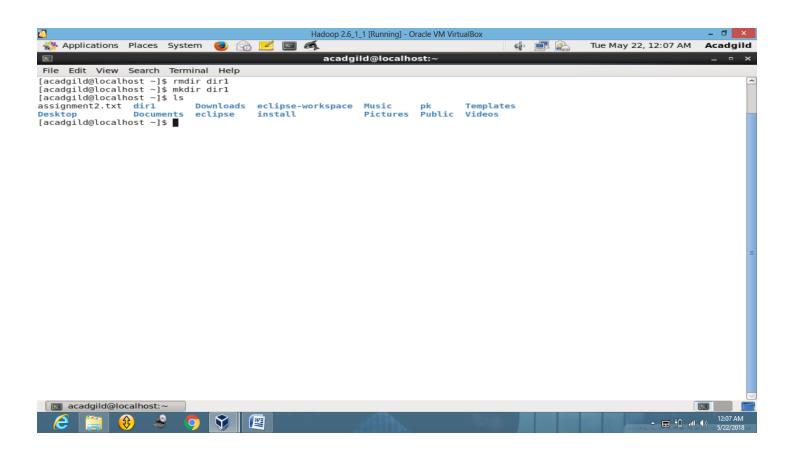
Syntax:

\$mkdir <name_of_directory> ▷

Options:

-p: parents or path, will also create all directories leading up to the given directory that do not exist already. For example, mkdir -p a/b will create directory a if it doesn't exist, then will create directory b inside directory a. If the given directory already exists, ignore the error.

-m: mode, specify the octal permissions of directories created by mkdir.



\$ rm:

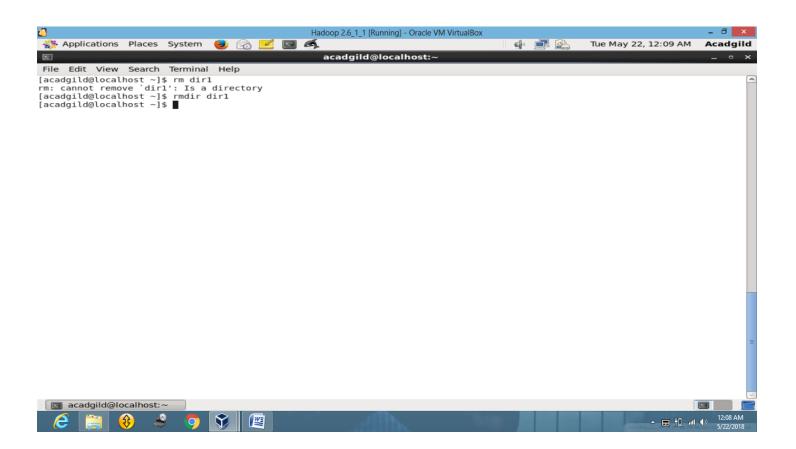
The rm command. The rm command is used to delete files. "rm -i" will ask before deleting each file; you may well have rm aliased to do this automatically. "rm -r" will recursively delete a directory and all its contents (normally rm will not delete directories, while rmdir will only delete empty directories).

Syntax:

\$ rm <filename><□

\$ rmdir <dir_name><□

- -r, which removes directories, removing the contents recursively beforehand (so as not to leave files without a directory to reside in) ("recursive")
- -i, which asks for every deletion to be confirmed ("interactive")
- -f, which ignores non-existent files and overrides any confirmation prompts ("force"), although it will not remove files from a directory if the directory is write-protected.



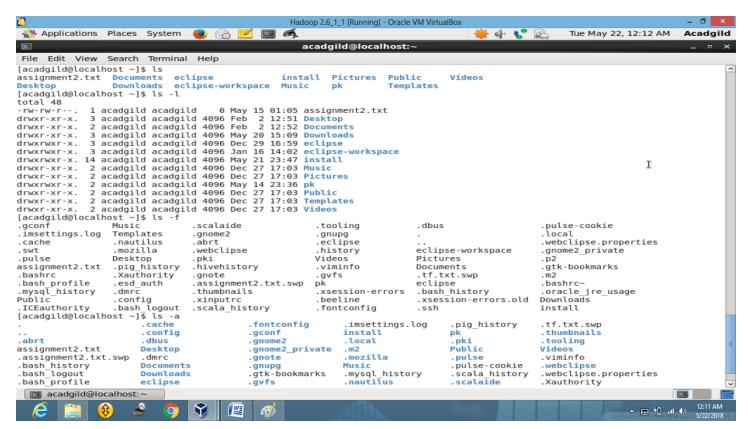
\$ ls:

ls is a command to list files in Unix and Unix-like operating systems.

Syntax:

\$ ls [option] ₄

- -l long format, displaying Unix file types, permissions, number of hard links, owner, group, size, last-modified date and filename
- -f do not sort. Useful for directories containing large numbers of files.
- -F appends a character revealing the nature of a file, for example, * for an executable, or / for a directory. Regular files have no suffix.
- -a lists all files in the given directory, including those whose names start with "." (which are hidden files in Unix). By default, these files are excluded from the list.
- -R recursively lists subdirectories. The command ls -R / would therefore list all files.
- -d shows information about a symbolic link or directory, rather than about the link's target or listing the contents of a directory.
- -t sort the list of files by modification time.
- -h print sizes in human readable format. (e.g., 1K, 234M, 2G, etc.)



\$ echo:

echo is a command in DOS, OS/2, Microsoft Windows, Unix and Unix-like operating systems that outputs the strings it is being passed as arguments. It is a command typically used in shell scripts and batch files to output status text to the screen or a file, or as a source part of a pipeline.

Syntax:

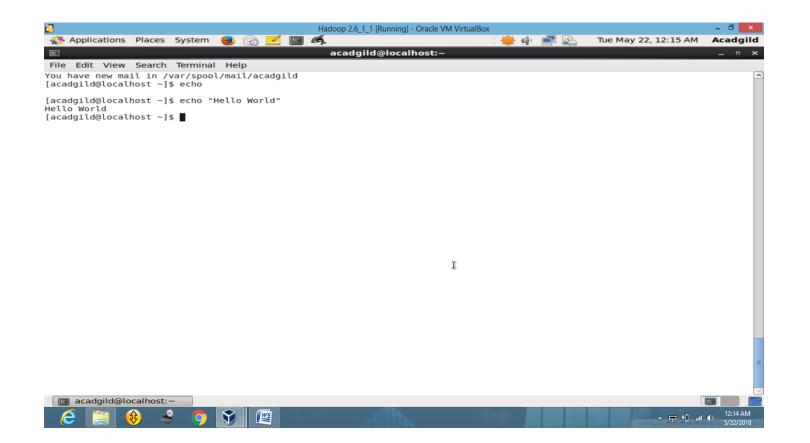
\$ echo "Hello World" ₽

Options:

\xHH

Do not output a trailing newline. -n Enable interpretation of backslash escape sequences. -е -E Disable interpretation of backslash escape sequences. --help Display a help message and exit. --version Output version information and exit. //A literal backslash character ("\"). \a An alert (The BELL character). \b Backspace \c Produce no further output after this. \e The escape character; equivalent to pressing the escape key. \f A form feed. A newline. \n \r A carriage return \t A horizontal tab. \v A vertical tab. \0NNN byte with octal value NNN (which can be 1 to 3 digits).

byte with hexadecimal value HH (which can be either 1 or 2 digits)



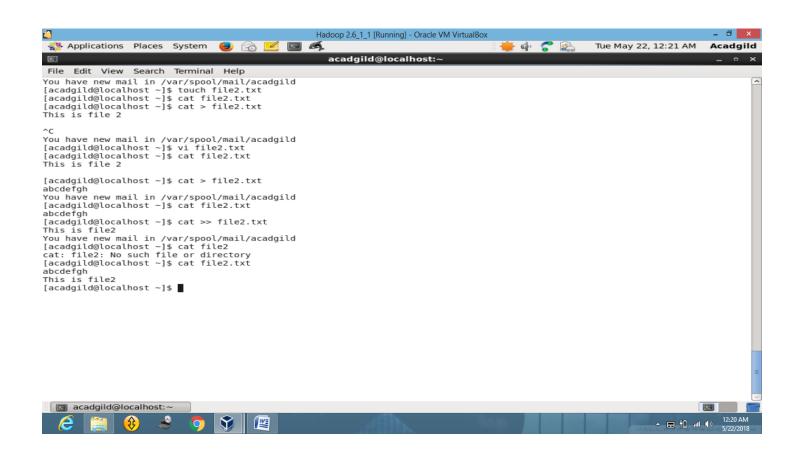
\$ cat:

cat is a standard Unix utility that reads files sequentially, writing them to standard output. The name is derived from its function to concatenate files.

Syntax:

\$ cat <file_name>₽

- -b number non-blank output lines
- -e implies -v but also display end-of-line characters as \$
- -n number all output lines
- -s squeeze multiple adjacent blank lines
- -t implies -v, but also display tabs as ^I
- -u use unbuffered I/O for stdout. POSIX does not specify the behavior without this option.
- -v displays nonprinting characters, except for tabs and the end of line character.



\$ who:

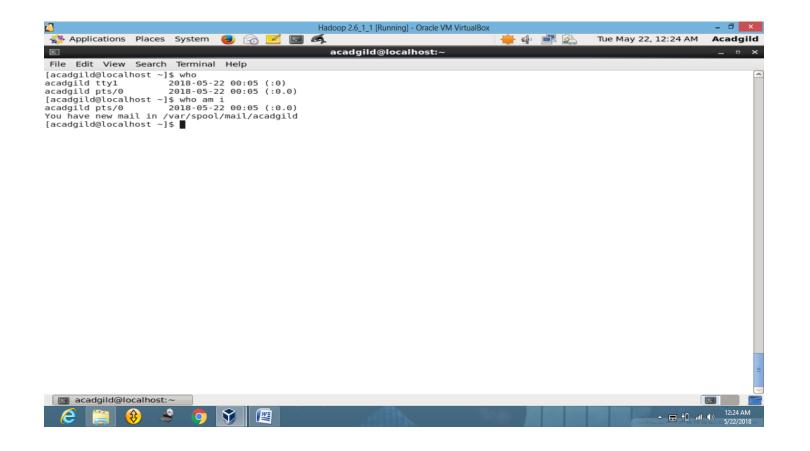
The standard Unix command who displays a list of users who are currently logged into the computer.

Syntax:

```
$ who &
```

\$ who am $I \triangleleft$

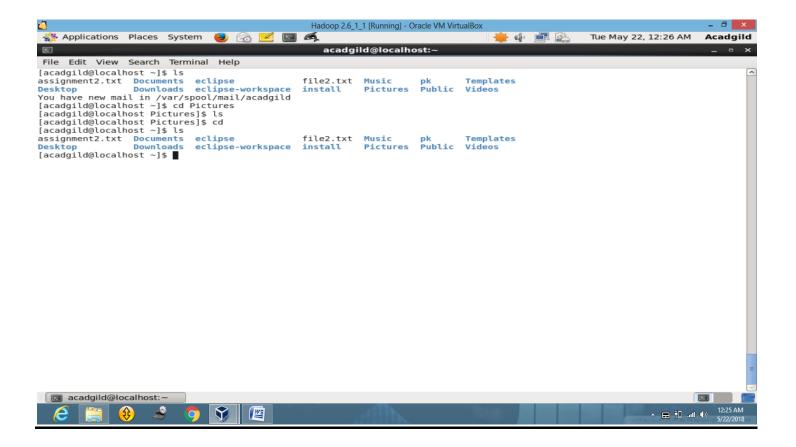
- -a, process the system database used for user information with the -b, -d, -l, -p, --r, -t, T and -u.
- -b show time when system was last rebooted
- -d show zombie processes and details
- -H show column headers
- -l show terminals where a user can log in
- -m show information about the current terminal only
- -p show active processes
- -q quick format, show only names and the number of all users logged on, disables all other options; equivalent to users command line utility
- -r show runlevel of the init process.
- -s (default) show only name, terminal, and time details
- -t show when system clock was last changed
- -T show details of each terminal in a standard format (see note in Examples section)
- -u show idle time; XSI shows users logged in and displays information whether the terminal has been used recently or not



<u>\$cd</u>

The cd command, also known as chdir (change directory), is a command-line OS shell command used to change the current working directory.

Syntax:

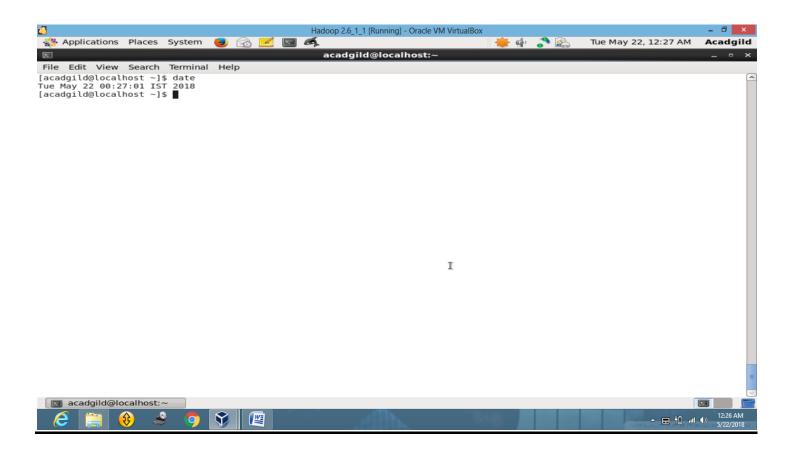


\$date:

date command is used to display the system date and time. date command is also used to set date and time of the system. By default the date command displays the date in the time zone on which unix/linux operating system is configured.

Syntax:

\$ date ₄

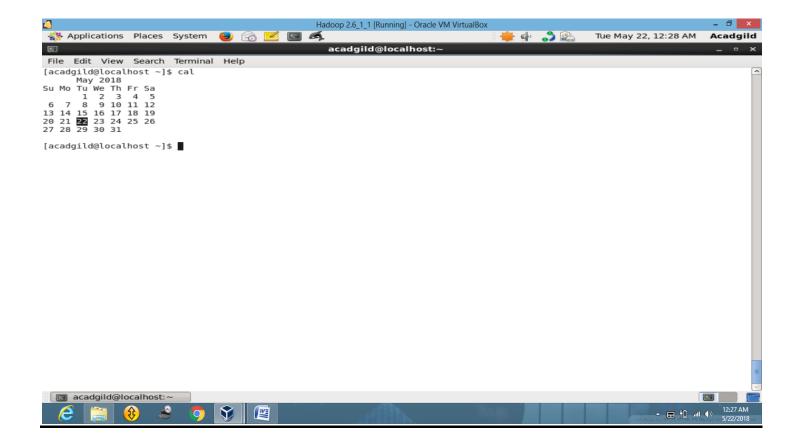


\$cal:

The cal command is a command line utility for displaying a calendar in the terminal. It can be used to print a single month, many months or an entire year. It supports starting the week on a Monday or a Sunday, showing Julian dates and showing calendars for arbitrary dates passed as arguments.

Syntax:

\$ cal <□



\$mv:

The mv command is a command line utility that moves files or directories from one place to another. It supports moving single files, multiple files and directories. It can prompt before overwriting and has an option to only move files that are new than the destination.

Syntax:

\$mv <file_name> <dir_name>/<file_name> \=

- -i interactively process, write a prompt to standard error before moving a file that would overwrite an existing file. If the response from the standard input begins with the character y' or Y', the move is attempted. (Overrides previous -f or -n options.)
- -f force overwriting the destination (overrides previous -i or -n options).



\$cp:

cp is a UNIX command for copying files and directories. The commandhas three principal modes of operation, expressed by the types of arguments presented to the program for copying a file to another file, one or more files to a directory, or for copying entire directories to another directory.

Syntax:

Copying from one file to another:

Copying file(s) to a directory-

Copying a directory to a directory (-r or -R must be used)

$$cp$$
 -r/-R $<$ sourcedirectory> $<$ target_directory> \trianglelefteq

Options:

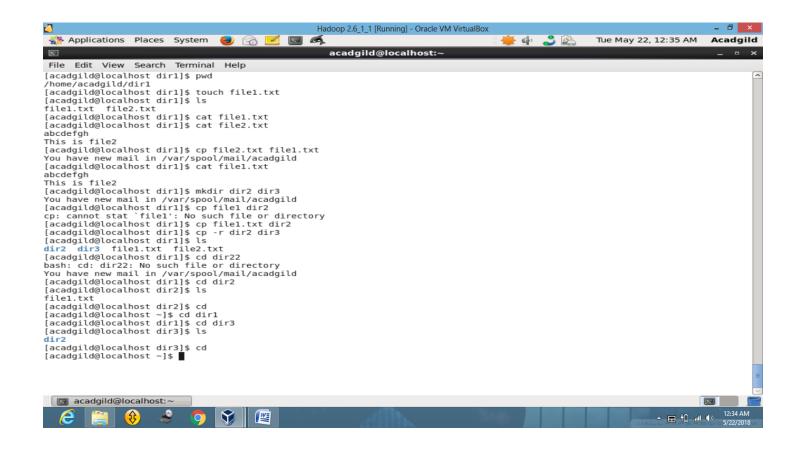
f (force) – specifies removal of the target file if it cannot be opened for write operations. The removal precedes any copying performed by the cp command.

H (dereference) – makes the cp command follow symbolic links (symlinks) so that the destination has the target file rather than a symlink to the target.

i (interactive) – prompts with the name of a file to be overwritten. This occurs if the TargetDirectory or TargetFile parameter contains a file with the same name as a file specified in the SourceFile or SourceDirectory parameter. If one enters y (or the locale's equivalent of y), the cp command continues. Any other answer prevents the cp command from overwriting the file.

p (preserve) – the p flag preserves the following characteristics of each source path in the corresponding target: the time of the last data modification and the time of the last access, the ownership (only if it has permissions to do this), and the file permission-bits.

R or r (recursive) – copy directories recursively



\$ which:

which is a Unix command used to identify the location of executables. The command takes one or more arguments; for each of these arguments, it prints the full path of the executable to stdout that would have been executed if this argument had been entered into the shell.

Syntax:

\$ which [-option] ₽

