Lecture 1 commands:

pwd – shows absolute path of current directory

usage: pwd

cd – change the current directory

usage: cd [PATH]

PATH – the path (absolute or relative) of a valid directory. If not specified then current directory is set to homedir.

Is – list content of directory

usage: Is [OPTIONS] [FILE1 ...]

FILE – specification of directories / files to list. If a file is specified, shows the file. If a directory is specified, then lists content of that directory. If nothing is specified lists content of current directory.

Common options:

- -F shows file type (directory (/), executable (*))
- -I lists all information for each file (size, permissions, owner, etc.)
- -a shows all files (including hidden files names starting with '.')

chmod – change file mode bits (permissions)

usage: chmod [OPTIONS] [MODE/OCT-MODE] FILE1 [FILE2 ...]

MODE is an alphabetic modification string in the format [ugoa][+-][rwx]

OCTAL-MODE is a 3-digit octal number indicating the new permissions

Common options:

- -R recursive (changes permissions to all files and directories within the specified directory, recursively)
- -refererence=[FILE] copies the permissions of the specified file to all other files

cp - copy a file (or list of files)

usage: cp [OPTIONS] SOURCE1 [SOURCE2 ...] DEST

SOURCE - list of files to copy

DEST – destination path. If DEST is an existing directory, then SOURCE is copied/moved into that directory with its original name. Otherwise, DEST should have a path to an existing directory with name of file that does not exist (otherwise overwrite notice is given)

Common options:

- -R or -r recursive copy. The SOURCE can be a directory, and then all its contents are copied (and subdirectories copied recursively)
- -i interactive mode. Prompts when overwriting existing files
- -n do not overwrite an existing file
- -a preserves attributes of original files (owner, date modified, etc.)
- -u update mode. Copy only when the SOURCE file is newer than the DEST file or when the DEST file is missing
- -v verbose mode. Report every operation being done

mv – move a file (or list of files)

usage: mv [OPTIONS] SOURCE1 [SOURCE2 ...] DEST

same as **cp**, but source file is removed. Can be used to rename a file. See above for details.

rm – removes a file (or list of files)

usage: rm [OPTIONS] FILE1 [FILE2 ...]

Common options:

- -R or -r recursive deletion of a directory
- -i interactive mode. Prompts before every removal
- -f forced mode. Do not prompt at all for non-existing files, for wrong options, for writeprotected files
- -v verbose mode. Report every operation being done

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mkdir – creates a new directory

usage: mkdir [OPTIONS] PATH1 [PATH2 ...]

Creates a new directory at specified path (absolute or relative).

Common options:

- -p creates parent directories if those do not exist
- -m MODE sets permission mode of the new directory. Otherwise the default is used.

touch – create / update file

usage: touch [OPTIONS]... FILE...

if file exists, updates 'last time updated', otherwise creates empty file

man – displays manual for linux command

usage: man [COMMAND]

navigation is done using commands as in VIM (other than edit commands):

- f pgdown
- b − pageup
- q quit
- /<word> search for <word> in help
- n repeat search