

Fall Semester 2021-2022

ECE5030 - Scripting Languages for VLSI Design Automation

M.Tech VLSI Design

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Lab Task 01 Linux Basics

Aim: Analyze the Basic Linux command in Terminal.

Program/ Code:

Commands can be run by themselves, or you can pass in additional arguments to make them do different things. Typical command syntax can look something like this:

command [-argument] [-argument] [file]

The following Code commands are executed in Terminal window.

\$pwd

\$cd

\$mkdir dirxyz

\$mkdir dir1 dir2 dir3

\$rmdir

\$history

\$history 5

\$history 10

\$cat >Filename

\$cat Filename

\$cp Source_file Destination_path

\$rm Filename

\$mv Filename Destination_path

\$ls

\$ls -l

\$ls -lt

\$ls -R

\$ls -ltR

The detailed explanation of commands as follows:

1. \$pwd

pwd stands for Print Working Directory. The command displays the path of present working directory or shows the current location in the directory tree. In the Figure 1.1 we observe \$pwd returns the path of present working directory.

2. \$mkdir

mkdir stands for make directory. The command creates new directory.

\$mkdir Scripting ----- Creates Directory called Scripting.

\$mkdir ABC EFG XYZ ----- Creates multiple Directory at once.

In the Figure 1.1 we observe the directories Scripting, PERL, Python, TCL and Ruby created by using \$mkdir command.

3. \$cd

cd stands for change directory. The command helps user to move from current directory to a new one.

In the Figure 1.1 we observe use of Absolute path and Relative path.

4. \$rmdir

rmdir stands for remove directory. The command removes the specific directory.

In the Figure 1.1 we observe \$rmdir Ruby command removes Ruby directory.

5. \$ls

The command lists the contents of the directory. In the Figure 1.1,1.2,1.3 and 1.4 we observe usage of this command.

- (i) \$ ls -R This command used to list contents of all directories.
- (ii) \$ ls -lR This command used to list contents of all the directories in long format.
- (iii) \$ ls -ltR This command used to list contents of all the directories in long format sorted with the modification time.
- (iv) \$ls -l This command used to list of all the directories in long format and also tells us total files present .

6. \$history

List of all the commands used.

In the Figure 1.1 we observe \$history 5 shows recent 5 commands used.

In the Figure 1.3 we observe \$history 10 shows recent 10 commands used.

7. \$cat

The \$cat command used to show the content of a file.

In the Figure 1.2 we observe \$cat LAB01 shows the contents stored in LAB01 file.

8. \$cp

The \$cp command copies a file from one location to another. In the Figure 1.2 we observe the command \$cp LAB01 ./PERL/ results in copying the LAB01 file from Scripting directory to PERL directory.

9. \$mv

The \$mv command moves a file to a new location or renames it. In the Figure 1.3 we observe the command \$mv LAB01 ./TCL/ results in moving LAB01 file from Scripting to TCL directory. The LAB01 file gets deleted in Scripting directory.

10. \$rm

The \$rm command Delete a file.

Output Screenshots:

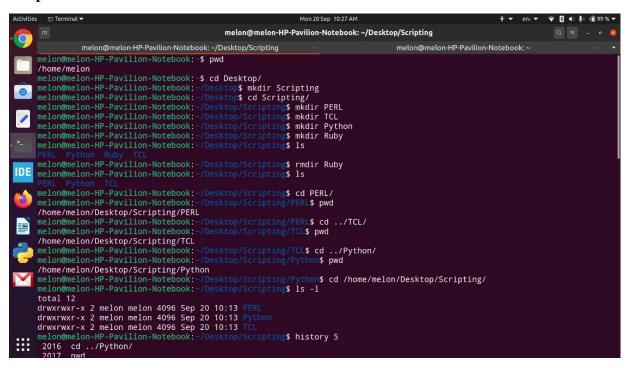


Figure 1.1 Screenshot of \$pwd, \$cd, \$mkdir, \$rmdir \$history and \$ls command usage.

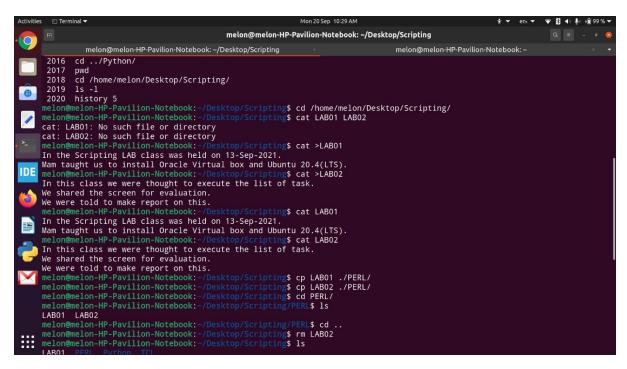


Figure 1.2 Screenshot of \$cat, \$cp and \$rm command usage.

Figure 1.3 Screenshot of \$mv, \$rm, \$ls -lt and history command usage.

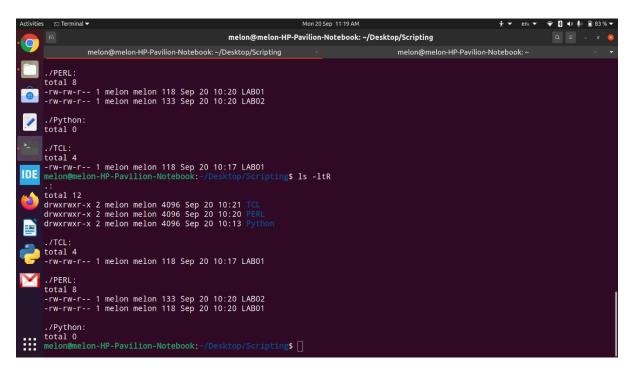


Figure 1.4 Screenshot of Recursive listing (\$ ls -ltR) command usage.

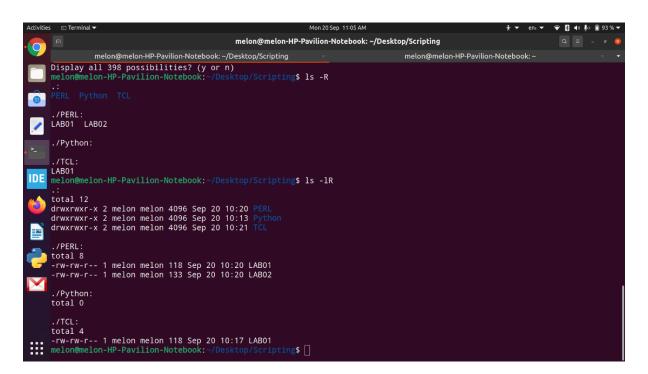


Figure 1.5 Screenshot of Recursive listing (\$ ls -R and \$ls -lR) command usage.

	Working in LINUX environment.
2. 3.	File Management becomes easy using commands in Terminal window. Handle files, directories and manage processes using CLI (command line interface).