OM M PATEL

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OS

Exp-1 Basic Terminal Commands

1) ***whoami command:*** **Displays user, group and privileges information for the user who is currently logged on to the local system. If used without parameters, whoami displays the current domain and user name.**

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % whoami
om-college
```

2) *pwd command:* The pwd command writes to standard output the full path name of your current directory (from the root directory). All directories are separated by a / (slash).

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % pwd
/Users/om-college
```

3) *ls command:* The ls command is used to list files. "ls" on its own lists all files in the current directory except for hidden files.

```
om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % ls
Applications          Library          Public
Desktop               Movies           java_error_in_idea_12539.log
Documents             Music            java_error_in_idea_1787.log
Downloads             Pictures         jbr_err_pid1420.log
```

3.1) *ls -R command:* The ls command lists the contents of your current working directory and recurring files.

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % ls -R
Applications                    Library                    Public
Desktop                         Movies                     java_error_in_idea_12539.log
Documents                       Music                      java_error_in_idea_1787.log
Downloads                       Pictures                   jbr_err_pid1420.log

./Applications:

./Desktop:
COLLEGE          GRAPHIC DESIGNS My Folder      dot_dummy_repo  myBTP          myrepo
```

3.2) ls -a command:

The ls command is used to list hidden directories and files.

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % ls -a
.                               .gradle                Documents
..                              .idlerc                Downloads
.CFUserTextEncoding             .lesshst               Library
.DS_Store                       .m2                    Movies
.Trash                          .pub-cache             Music
.android                        .viminfo               Pictures
.cache                          .vscode                Public
.config                         .zsh_history           java_error_in_idea_12539.log
.dart                           .zsh_sessions          java_error_in_idea_1787.log
.dist                           Applications           jbr_err_pid1420.log
.emulator_console_auth_token    Desktop
```

4)history command:

history command is used to view the previously executed command.

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % history
 704  whoami
 705  pwd
 706  ls
 707  ls -R
 708  ls
 709  s
 710  ls
 711  ls
 712  ls -R
 713  ls -a
 714  history
 715  clear
 716  whoami
 717  pwd
 718  ls
 719  ls -a
```

5) clear command: The clear command clears your screen, if possible. The clear command first checks the TERM environment variable for the terminal type

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % clear
```

6) echo command: In computing, echo is a command that outputs the strings that are passed to it as arguments.

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % echo "I  AM OM M PATEL "
 I  AM OM M PATEL
```

7) touch command: The touch command updates the access and modification times of each file specified by the File parameter of each directory specified by the Directory parameter.

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR college % cd OS-LAB
[om-college@OM-M-PATEL-MACBOOK-M1-AIR OS-LAB % touch stack.c
```

8) rm command:The rm command is used to delete files. rm -i will ask before deleting each file.

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR OS-LAB % rm RemoveMe.c
```

9) mkdir command: The mkdir command in Linux/Unix allows users to create or make new directories. mkdir stands for "make directory."

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR code % ls
Abstraction.java                Encapsulation.java              OOPs_Polymorphism.java
BitManipulation_ClearBit.java   Insertion_sort.java            Reverse_String.java
BitManipulation_GetBit.java     Interface.java                 Selection_sort.java
BitManipulation_SetBit.java     OOPs.java                       Static.java
Bubble_Sort.java                OOPs_Inheritance.java           strings.java
[om-college@OM-M-PATEL-MACBOOK-M1-AIR code % mkdir concept
[om-college@OM-M-PATEL-MACBOOK-M1-AIR code % ls
Abstraction.java                Insertion_sort.java            Selection_sort.java
BitManipulation_ClearBit.java   Interface.java                 Static.java
BitManipulation_GetBit.java     OOPs.java                       concept
BitManipulation_SetBit.java     OOPs_Inheritance.java           strings.java
Bubble_Sort.java                OOPs_Polymorphism.java
Encapsulation.java              Reverse_String.java
```

10) rmdir command: The rmdir command removes the directory, specified by the Directory parameter, from the system. The directory must be empty before you can remove it, and you must have write permission in its parent directory.

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR code % rmdir concept
[om-college@OM-M-PATEL-MACBOOK-M1-AIR code % ls
Abstraction.java                Encapsulation.java              OOPs_Polymorphism.java
BitManipulation_ClearBit.java   Insertion_sort.java            Reverse_String.java
BitManipulation_GetBit.java     Interface.java                 Selection_sort.java
BitManipulation_SetBit.java     OOPs.java                       Static.java
Bubble_Sort.java                OOPs_Inheritance.java           strings.java
```

11) mv command: The mv command moves files and directories from one directory to another or renames a file or directory. If you move a file or directory to a new directory, it retains the base file name.

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % mv  om-college@OM-M-PATEL-MACBOOK-M1-AIR/D
/Desktop/College/OS-LAB/Stack om-college@OM-M-PATEL-MACBOOK-M1-AIR/Desktop/College/OS
```

12) cd command: The cd command, also known as chdir (change directory), is a command-line shell command used to change the current working directory in various operating systems. It can be used in shell scripts and batch files.

```
[om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % cd Desktop/
 om-college@OM-M-PATEL-MACBOOK-M1-AIR Desktop %
```

13) date command: The date command displays or sets the date and time.

```
om-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % date
Thu Jan 19 22:42:36 IST 2023
```

14) cal command: The cal command displays a calendar of the specified year or month. The Year parameter names the year for which you want a calendar.

```
lom-college@OM-M-PATEL-MACBOOK-M1-AIR ~ % cal
      January 2023
Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7
 8  9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
```