|  |  |
| --- | --- |
| Create a directory: | mkdir dir |
| Create nested directories: | mkdir -p dir1/dir2 |
| Changing directories: | cd newdir |
|  | cd .. (parent directory) |
|  | cd - (previous directory) |
|  | cd ../../ (Move 2 directory up from where are you now) |
| Print the working (current) directory: | pwd |
| Copy a file to another: | cp source\_file dest\_file |
| Copy files to a directory: | cp file1 file2 dir |
| Rename a file, link or directory: | mv source\_file dest\_file |
| Remove files or links: | rm file1 file2 |
| Remove empty directories: | rmdir dir |
| Remove non-empty directories: | rm -rf dir |
| Create a file with content | vim file |
| Save the file after making changes | Esc :wq! Enter |

***Handling files and directories***

***Listing files***

|  |  |
| --- | --- |
| Display a long listing: | ls -l |
| List by time (most recent files first): | ls -t |
| List by size (biggest files first) | ls -S |
| List with a reverse sort order: | ls -r |
| Long list with most recent files last: | ls -ltr |

***Displaying file contents***

|  |  |
| --- | --- |
| Concatenate and display file contents: | cat file1 file2 |
| less file1 file2 (better: extra features) Display the first 10 lines of a file: | head -10 file |
| Display the last 10 lines of a file: | tail -10 file |
| touch “give ur file name” – creates file in that dir | touch file |

***File name pattern matching***

|  |  |
| --- | --- |
| Concatenate all regular files: | cat \* |
| Concatenate all hidden files | cat .\* |

***Handling File content***

|  |  |
| --- | --- |
| Show only lines in a file containing a given substring | grep substring file |
| Case insensitive search | grep -i substring file |
| Search through all the files in a directory | grep -r substring file |
| Sort lines in a given file | sort file |

***Changing a File access rights***

|  |  |
| --- | --- |
| Add write permissions to the current user: | chmod u+w file |
| Add read permissions to users in the file group: | chmod g+r file |
| Allow all access to the user | chmod u+x file |
| Add read + write permissions to all users: | chmod a+rw file |

***Job Control***

|  |  |
| --- | --- |
| Show all running processes: | ps -ef |

***Compressing a file***

|  |  |
| --- | --- |
| Compress a file: | gzip file (.gz format) |
| Uncompress a file: gunzip file.gz | gunzip file.gz |

***User management***

|  |  |
| --- | --- |
| List users logged on the system: | Who |
| Show which user I am logged as: | whoami |

***Time management***

|  |  |
| --- | --- |
| Wait for 10 seconds | sleep 10 |
| Show date | Date |
| Tell more information about user | finger user |

***System administration***

|  |  |
| --- | --- |
| To install finger command | sudo apt-get install finger |
| Reboot the machine in 5 minutes | sudo -r +5 |
| Shut down the machine now | sudo -h now |