Command Line Example 1

Who am I?

➤ whoami

Command Line Example 2

Become root:

➤ **sudo -I (Now you can do anything on your computer including deleting important files, etc)**

Back to the safe user:

➤ **su devisland**

Command Line Example 3

Where am I?

➤ **pwd**

LEARN
Node.js

Command Line Example 4

STEP BY STEP
WITH
NO STEP SKIPPED

Move to a directory?

➢ **cd directory_name**
➢ **cd full_directory_path**

Command Line Example 5

Move to root directory

➢ **cd /**
➢ **cd ~**

LEARN
Node.js

Command Line Example 6

STEP BY STEP
WITH
NO STEP SKIPPED

Move up one directory

➤ `cd ..`

LEARN
Node.js

Command Line Example 7

STEP BY STEP
WITH
NO STEP SKIPPED

Move to relative path

➤ `cd ../../directory`

LEARN
Node.js

Command Line Example 8

STEP BY STEP
WITH
NO STEP SKIPPED

Create a directory named nodecourse:

➢ **mkdir nodecourse**

LEARN
Node.js

Command Line Example 9

STEP BY STEP
WITH
NO STEP SKIPPED

List elements inside the Node directory

if you run the command inside Node:

➢ `ls`

Otherwise:

➢ `ls /Users/devisland/Desktop/Node`

LEARN
Node.js

Command Line Example 10

STEP BY STEP
WITH
NO STEP SKIPPED

Remove the directory named nodecourse:

➢ **man rm**

➢ **rmdir nodecourse (works only with an empty directory)**

➢ **rm -rf nodecourse (remove the directory and its contents)**

LEARN
Node.js

Command Line Example 11

STEP BY STEP
WITH
NO STEP SKIPPED

Create a file app.js

➤ **touch app.js**

LEARN
Node.js

Command Line Example 12

STEP BY STEP
WITH
NO STEP SKIPPED

check permissions of a file

(u-> user, g-> group, o->other)
(r-> read, w-> write, x-> execute)
➤ ls -l app.js

LEARN
Node.js

Command Line Example 13

STEP BY STEP
WITH
NO STEP SKIPPED

add x permission to group

➤ `chmod g+x  app.js`

LEARN
Node.js

Command Line Example 14

STEP BY STEP
WITH
NO STEP SKIPPED

remove w and x permissions to group and other

➤ chmod go-wx app.js

LEARN
Node.js

Command Line Example 15

STEP BY STEP
WITH
NO STEP SKIPPED

Permissions using numbers:
x -> 1, w -> 2, r ->4
Ex: xw->3

Number	r	w	x
0	No	No	No
1	No	No	Yes
2	No	Yes	No
3	No	Yes	Yes
4	Yes	No	No
5	Yes	No	Yes
6	Yes	Yes	No
7	Yes	Yes	Yes

LEARN
Node.js

Command Line Example 16

STEP BY STEP
WITH
NO STEP SKIPPED

Example:

➤ **chmod 751 app.js**

Number	r	w	x
0	No	No	No
1	No	No	Yes
2	No	Yes	No
3	No	Yes	Yes
4	Yes	No	No
5	Yes	No	Yes
6	Yes	Yes	No
7	Yes	Yes	Yes

LEARN
Node.js

Command Line Example 17

STEP BY STEP
WITH
NO STEP SKIPPED

Create a copy app2.js of file app.js

➢ **cp app.js app2.js**

LEARN
Node.js

Command Line Example 18

STEP BY STEP
WITH
NO STEP SKIPPED

Create a copy app3.js of file ~/app.js

➤ `cp ~/app.js app3.js`

Command Line Example 19

Remove app.js

➤ rm -f app.js (-f to avoid the confirmation prompt)

LEARN
Node.js

Command Line Example 20

STEP BY STEP
WITH
NO STEP SKIPPED

move app.js to js folder (works with directories too)

➤ `mkdir js`
➤ `mv app.js js/script.js`

Or

➤ `mv app.js js/`

LEARN
Node.js

Command Line Example 21

STEP BY STEP
WITH
NO STEP SKIPPED

rename app.js server.js

➤ **mv app.js server.js**

LEARN
Node.js

Command Line Example 22

STEP BY STEP
WITH
NO STEP SKIPPED

Create a copy of directory js

➤ `cp –r js js2`
improved version: preserves file attributes and copies hidden files too
➤ `cp –a js/. js2`

You can also use full paths
`cp –a ~/Users/devisland/Desktop/js/. js2`

LEARN
Node.js

Command Line Example 23

STEP BY STEP
WITH
NO STEP SKIPPED

overwrite into app.js

➤ `echo "console.log('hi');" > app.js`

Command Line Example 24

Append to app.js

➤ `echo "console.log('hello');" >> app.js`

LEARN
Node.js

Command Line Example 25

STEP BY STEP
WITH
NO STEP SKIPPED

read app.js

➤ cat app.js (add –n to number output lines)
➤ vim app.js

read unique lines (no duplicates)

➤ uniq app.js

LEARN
Node.js

Command Line Example 26

STEP BY STEP
WITH
NO STEP SKIPPED

Print first 3 lines of app.js

➤ `head -3 app.js`

Print last 3 lines of app.js

➤ `tail -3 app.js`

LEARN
Node.js

Command Line Example 27

STEP BY STEP
WITH
NO STEP SKIPPED

Print row 3 of app.js

➤ `head -3 app.js | tail -1`

Command Line Example 28

Print last 20 lines of your bash history

➤ **history | tail -20**

LEARN
Node.js

Command Line Example 29

STEP BY STEP
WITH
NO STEP SKIPPED

look for lines including the word 'hello' inside app.js

➤ **grep "hello" app.js**

✓ **Add -i to make the search case insensitive**

✓ **Add -n to display line numbers**

✓ **Add --color to highlight matching words**

✓ **Add –v to look for lines excluding the word**

LEARN
Node.js

Command Line Example 30

STEP BY STEP
WITH
NO STEP SKIPPED

look for first two lines including the word 'hello' inside app.js

➤ `grep -m 2 "hello" app.js`

Another way:

➤ `cat app.js | grep –m2 "hello"`

LEARN
Node.js

Command Line Example 31

STEP BY STEP
WITH
NO STEP SKIPPED

look for lines including the word 'hello' inside files ending .js

➢ `grep "hello" *.js`

LEARN
Node.js

Command Line Example 32

STEP BY STEP
WITH
NO STEP SKIPPED

look for lines including the pattern "h*o" inside app.js

➤ grep "h*o" app.js

LEARN
Node.js

Command Line Example 33

STEP BY STEP
WITH
NO STEP SKIPPED

look for "hello" recursively inside files located inside the folder Node

If you run the command inside the folder Node

➢ `grep -r "hello" "."`

LEARN
Node.js

Command Line Example 34

STEP BY STEP
WITH
NO STEP SKIPPED

look for "hello" recursively inside files located inside the folder Node and return file names instead of lines

If you run the command inside the folder Node

➤ grep -rl "hello" "."

LEARN
Node.js

Command Line Example 35

STEP BY STEP
WITH
NO STEP SKIPPED

look for lines containing both "hello" and "console" inside app.js

➢ grep "hello" app.js | grep "console"

LEARN
Node.js

Command Line Example 36

STEP BY STEP
WITH
NO STEP SKIPPED

look for lines containing "hello" or "hi" inside app.js

➤ egrep "hello|console" app.js

LEARN
Node.js

Command Line Example 37

STEP BY STEP
WITH
NO STEP SKIPPED

look for lines containing "hello" but not containing "console" inside app.js

➤ grep "hello" app.js | grep -v "console"

Command Line Example 38

Look recursively for files (exclude folders) named app* inside the folder Node

If you run the command inside Node

➢ **find . –name "app*" –type f**

Command Line Example 39

Look recursively for folders named app* inside the folder Node

If you run the command inside Node

➤ **find . –name "app*" –type d**

Command Line Example 40

Look recursively for folders named app* inside the folder Node and remove them

If you run the command inside Node

➢ find . –name "app*" –type d –exec rm –rf "{}" \;

LEARN
Node.js

Command Line Example 41

STEP BY STEP
WITH
NO STEP SKIPPED

Get the size of the folder Node

If you run the command inside Node

➤ `du –ch . | grep total`

LEARN
Node.js

Command Line Example 42

STEP BY STEP
WITH
NO STEP SKIPPED

Find in which location an executable file is located:

➤ which node

LEARN
Node.js

Command Line Example 43

STEP BY STEP
WITH
NO STEP SKIPPED

Find in which location an executable file is located:

➤ which node

LEARN
Node.js

Command Line Example 44

STEP BY STEP
WITH
NO STEP SKIPPED

Replace all occurrences of "hi" in app.js with "hi there"

➤ **sed –i.backup 's/hi/hi there/g' app.js (creates a backup file app.js.backup)**

LEARN
Node.js

Command Line Example 45

STEP BY STEP
WITH
NO STEP SKIPPED

Download a file from the internet

First Install wget using Homebrew:
➢ ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)" < /dev/null 2> /dev/null
➢ brew install wget

Then
➢ wget https://cdn.pixabay.com/photo/2015/12/01/20/28/road-1072823_1280.jpg

LEARN
Node.js

Command Line Example 45

STEP BY STEP
WITH
NO STEP SKIPPED

Create a bash script and run it:

Create a file run, make it executable, write bash code and execute:

➢ touch run
➢ chmod +x run
➢ ./run