

What are Command Options? Options modify or enhance the behavior of a command

What are Command Arguments? command arguments are the items that a command works on

Which command is used for creating directories? Provide at least 3 examples.

`mkdir`

ex 1: create a directory in the current working directory `mkdir MyMusic`

ex 2: create a folder in another directory using absolute path `mkdir ~/downloads/SNESroms`

ex3: using an escape character to create a file name with a space in it `mkdir /MyMusic/BootyShakin\ music`

What does the touch command do? Provide at least 3 examples. The touch command creates files

ex 1: creating a file `touch myFile`

ex 2: creating multiple files `touch coolFile.txt lameFile.js iamambivalenttowardsthisfile.md`

ex 3: Creating a file using relative path and spaces in the name `touch Downloads/SNESroms/"bahamut lagoon"`

How do you remove a file? Provide an example. the command `rm` is used to remove files

`rm iamambivalenttowardsthisfile.md`

How do you remove a directory and can you remove non-empty directories in Linux? You can use `rmdir` or `rm` with the `-r` option (use with caution). Non-empty directories cannot be removed in Linux Provide an example

`rmdir Downloads/SNESroms`

Explain the mv and cp command. Provide at least 2 examples of each The `mv` command moves a file from one location to another and can rename it. The `cp` command makes a copy of the file leaving the original where it was

ex 1: moving a file to a new directory `mv Downloads/DKC2.sfc Downloads/SNESroms`

ex 2: Renaming a file `mv MyGF.png SomebodyThatIUsedToKnow.png`

ex 3: copying a file `cp Downloads/legallyacquiredROMimage.sfc Downloads/SNESroms`

ex4: copying a directory `cp -r Downloads/SNESroms Downloads/Nothingtoseehere/justuschickens/nogamesinherebutifthereistheyrelegalbackups`

Practice 1

```
1/1 v + T T Tillix: jcpachtinger@cis106: ~
1: jcpachtinger@cis106: ~
jcpachtinger@cis106:~$ mkdir website
jcpachtinger@cis106:~$ mkdir website/script website/assets
jcpachtinger@cis106:~$ touch website/index.html
jcpachtinger@cis106:~$ touch website/assets/image.png
jcpachtinger@cis106:~$ touch website/scripts/script.js
touch: cannot touch 'website/scripts/script.js': No such file or directory
jcpachtinger@cis106:~$ touch website/script/script.js
jcpachtinger@cis106:~$ tree website/
website/
├── assets
│   └── image.png
├── index.html
└── script
    └── script.js

3 directories, 3 files
jcpachtinger@cis106:~$ rm website/assets/image.png website/script/script.js
jcpachtinger@cis106:~$ rmdir website/assets website/script
jcpachtinger@cis106:~$ rm -r website/
jcpachtinger@cis106:~$ _
```

Practice 2

```
1/1 v + T T Tillix: jcpachtinger@cis106: /usr/share
1: jcpachtinger@cis106: /usr/share
jcpachtinger@cis106:~$ cd /usr/share
jcpachtinger@cis106:/usr/share$ mkdir ~/website
jcpachtinger@cis106:/usr/share$ mkdir -p ~/website/assets/images/small
mkdir: cannot create directory '~website': Permission denied
jcpachtinger@cis106:/usr/share$ mkdir -p ~/website/assets/images/small
jcpachtinger@cis106:/usr/share$ touch ~/website/assets/images/small
jcpachtinger@cis106:/usr/share$ touch ~/website/assets/images/small/logo.png
jcpachtinger@cis106:/usr/share$ rm ~/website/assets/images/small ~/website/assets/images/small/logo.png
rm: cannot remove '/home/jcpachtinger/website/assets/images/small': Is a directory
jcpachtinger@cis106:/usr/share$ rm ~/website/assets/images/small/logo.png
rm: cannot remove '/home/jcpachtinger/website/assets/images/small/logo.png': No such file or directory
jcpachtinger@cis106:/usr/share$ rmdir ~/website
rmdir: failed to remove '/home/jcpachtinger/website': Directory not empty
jcpachtinger@cis106:/usr/share$ rm -r ~/website
jcpachtinger@cis106:/usr/share$ _
```

Practice 3

```
1/1 v + TiliX: jcpachtinger@cis106: ~/website/assets
jcpachtinger@cis106:~/website/assets$ ~
bash: /home/jcpachtinger: Is a directory
jcpachtinger@cis106:~/website/assets$ cd
jcpachtinger@cis106:~$ mkdir -p website/assets/
jcpachtinger@cis106:~$ curl https://cis106.com/assets/samplesite.txt -o ~website/
/index.html
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--    0W
Warning: Failed to open the file ~website/index.html: No such file or
Warning: directory
100  372 100  372    0     0  1547      0 --:--:-- --:--:-- --:--:--  1550
curl: (23) Failure writing output to destination
jcpachtinger@cis106:~$ mv Downloads/pic1.jpeg Downloads/pic2.jpeg website/assets
mv: cannot stat 'Downloads/pic2.jpeg': No such file or directory
jcpachtinger@cis106:~$ mv Downloads/pic2.jpeg website/assets
jcpachtinger@cis106:~$ cd /website/assets
bash: cd: /website/assets: No such file or directory
jcpachtinger@cis106:~$ cd website/assets
jcpachtinger@cis106:~/website/assets$ mv pic1.jpeg image.png
jcpachtinger@cis106:~/website/assets$ mv pic2.jpeg image2.png
jcpachtinger@cis106:~/website/assets$ _
```

Practice 4

```
Tillix: jcpachtinger@cis106: ~/Downloads
jcpachtinger@cis106:~$ mkdir website/docs
jcpachtinger@cis106:~$ cd downloads
bash: cd: downloads: No such file or directory
jcpachtinger@cis106:~$ cd downloads/
bash: cd: downloads/: No such file or directory
jcpachtinger@cis106:~$ cd Downloads/
jcpachtinger@cis106:~/Downloads$ cp sample1.doc sample1.xls sample1.pdf ~/website
/docs
cp: target '~/website/docs': No such file or directory
jcpachtinger@cis106:~/Downloads$ cp sample1.doc sample1.xls sample1.pdf ~/website
/docs
jcpachtinger@cis106:~/Downloads$ tree ~/website
/home/jcpachtinger/website
├── assets
│   ├── image2.png
│   └── image.png
└── docs
    ├── sample1.doc
    ├── sample1.pdf
    └── sample1.xls

3 directories, 5 files
jcpachtinger@cis106:~/Downloads$ _
```