

# Week Report 5

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## What are command Options?

Command options are used to modify/enhance the command's behavior.

## What are command arguments?

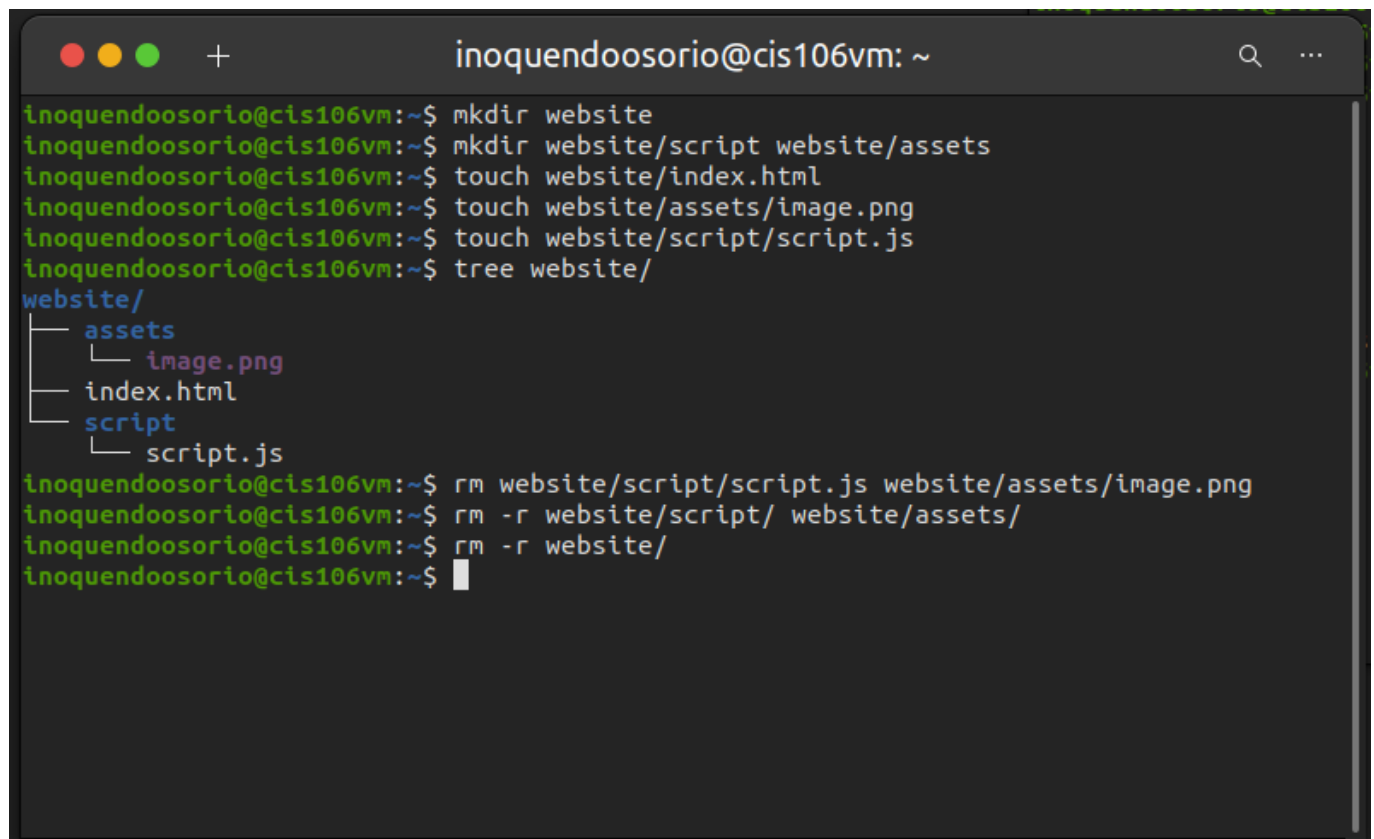
Command arguments are the inputs/items on which the command acts on.

Question	Definition	Usage	Example
<b>Which command is used for creating directories? Provide at least 3 examples.</b>	<code>mkdir</code> is a command used for creating a single directories or multiple directories.	To create a directory with <code>mkdir</code> type: <code>mkdir + the name of the directory</code>	<pre>- mkdir -p   website/assets/{img,videos,music} - mkdir pictures - mkdir school</pre>
<b>What does the touch command do? Provide at least 3 examples.</b>	<code>touch</code> is a command used to create files and updates the given file's timestamp. If the file does not exit, it creates a new file	To create a file type: <code>touch + the name of the file</code>	<pre>- touch shopping_lists.txt - touch doc1.docx - touch slides.ppt</pre>
<b>How do you remove a file? Provide and example.</b>	<code>rm</code> is a command to used remove files.	To remove a file type: <code>rm + file to be removed</code>	<pre>- rm website/index.html - rm website/assets/image.png - rm shopping_lists.txt</pre>
<b>How can you remove a directory and can you remove a non-empty directory in Linux? Provide an example.</b>	<code>rmdir</code> is a command used to remove empty directories. <code>rmdir</code> by default does not remove NON-empty directories. To remove a NON-empty directory use <code>-r</code> option.	To remove empty directories use <code>rmdir + directory to be removed</code> . To remove a non-empty directory type: <code>rm -r + directory to be removed</code>	<pre>- rm -r website/assets/music/ - rmdir pictures/</pre>

Question	Definition	Usage	Example
<b>Explain the mv command.</b> <b>Provide at least 2 examples of each.</b>	<code>mv</code> is a command use to move and rename directories. Where source is the file or directory that you want to move and destination is where the directory or file is going. Both, source and destination can be either absolute or relative path.	The basic formula of the <code>mv</code> command is: <code>mv + source + destination</code>	To move a file of a directory to another directory use: - <code>mv /Downloads/week5.md cis106-spring/week5</code> - <code>mv ~/Downloads/Photos ~/Pictures/</code>
<b>Explain the cp command.</b> <b>Provide at least 2 examples of each.</b>	<code>cp</code> is a command used to copy file/directories from a source to a destination.	The <code>cp</code> command uses the same structure as the <code>mv</code> command: <code>cp + file/directory to copy + destination</code>	- <code>cp /Downloads/wallpapers/Pictures/wallpapers/</code> - <code>cp Downloads/sample1.docx website/docs/</code>

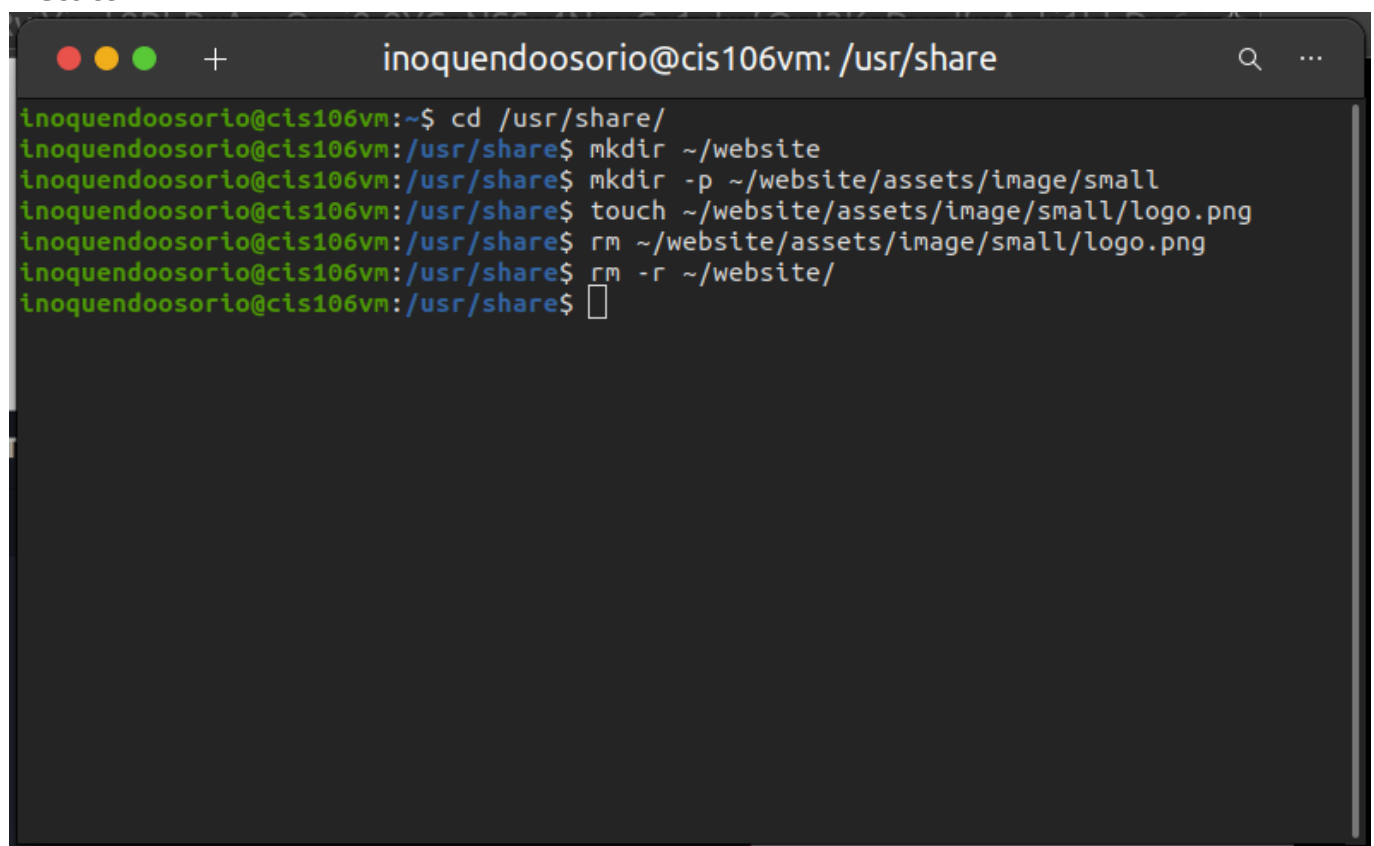
## Practice

## Practice 1

A terminal window titled 'inoquendoosorio@cis106vm: ~' showing a series of commands to create a website directory structure. The commands are: 'mkdir website', 'mkdir website/script website/assets', 'touch website/index.html', 'touch website/assets/image.png', 'touch website/script/script.js', and 'tree website/'. The output of the 'tree' command shows a directory tree with 'assets' (containing 'image.png') and 'script' (containing 'script.js') subdirectories under 'website/'. Finally, the directory is removed with 'rm -r website/'.

```
inoquendoosorio@cis106vm:~$ mkdir website
inoquendoosorio@cis106vm:~$ mkdir website/script website/assets
inoquendoosorio@cis106vm:~$ touch website/index.html
inoquendoosorio@cis106vm:~$ touch website/assets/image.png
inoquendoosorio@cis106vm:~$ touch website/script/script.js
inoquendoosorio@cis106vm:~$ tree website/
website/
├── assets
│   └── image.png
├── index.html
└── script
    └── script.js
inoquendoosorio@cis106vm:~$ rm website/script/script.js website/assets/image.png
inoquendoosorio@cis106vm:~$ rm -r website/script/ website/assets/
inoquendoosorio@cis106vm:~$ rm -r website/
inoquendoosorio@cis106vm:~$
```

## Practice 2

A terminal window titled 'inoquendoosorio@cis106vm: /usr/share' showing commands to create a website directory structure in the user's home directory. The commands are: 'cd /usr/share/', 'mkdir ~/website', 'mkdir -p ~/website/assets/image/small', 'touch ~/website/assets/image/small/logo.png', 'rm ~/website/assets/image/small/logo.png', and 'rm -r ~/website/'.

```
inoquendoosorio@cis106vm:~$ cd /usr/share/
inoquendoosorio@cis106vm:/usr/share$ mkdir ~/website
inoquendoosorio@cis106vm:/usr/share$ mkdir -p ~/website/assets/image/small
inoquendoosorio@cis106vm:/usr/share$ touch ~/website/assets/image/small/logo.png
inoquendoosorio@cis106vm:/usr/share$ rm ~/website/assets/image/small/logo.png
inoquendoosorio@cis106vm:/usr/share$ rm -r ~/website/
inoquendoosorio@cis106vm:/usr/share$
```

## Practice 3

```

inoquendoosorio@cis106vm: ~
inoquendoosorio@cis106vm:~$ mkdir -p website/assets
inoquendoosorio@cis106vm:~$ 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
100   372   100   372    0     0   1582      0  --:--:-- --:--:-- --:--:--   1582
inoquendoosorio@cis106vm:~$ mv Downloads/pexels-photo-
mv: missing destination file operand after 'Downloads/pexels-photo-'
Try 'mv --help' for more information.
inoquendoosorio@cis106vm:~$ mv Downloads/pexels
mv: missing destination file operand after 'Downloads/pexels'
Try 'mv --help' for more information.
inoquendoosorio@cis106vm:~$ ls Downloads/pexels-photo-
ls: cannot access 'Downloads/pexels-photo-': No such file or directory
inoquendoosorio@cis106vm:~$ ls Downloads/
final-sp22-passwordprotected.zip
'Lecture 01_Introduction to Forensic Science.odp'
'Lecture 01_Introduction to Forensic Science.pptx'
'Lecture 02_Crime Scene Investigation.odp'
'Lecture 02_Crime Scene Investigation.pptx'
'Linux Workshop Ubuntu Software installation cheat sheet.png'
pexels-photo-10162701.jpeg
pexels-photo-11519194.jpeg
pexels-photo-7478593.jpeg
'Spring 22 Final(Isaac).pdf'
inoquendoosorio@cis106vm:~$ mv Downloads/pexels-photo-10162701.jpeg website/assets/
inoquendoosorio@cis106vm:~$ mv Downloads/pexels-photo-11519194.jpeg website/assets/
inoquendoosorio@cis106vm:~$ mv Downloads/pexels-photo-7478593.jpeg website/assets/

inoquendoosorio@cis106vm: ~
pexels-photo-10162701.jpeg
pexels-photo-11519194.jpeg
pexels-photo-7478593.jpeg
'Spring 22 Final(Isaac).pdf'
inoquendoosorio@cis106vm:~$ mv Downloads/pexels-photo-10162701.jpeg website/assets/
inoquendoosorio@cis106vm:~$ mv Downloads/pexels-photo-11519194.jpeg website/assets/
inoquendoosorio@cis106vm:~$ mv Downloads/pexels-photo-7478593.jpeg website/assets/
inoquendoosorio@cis106vm:~$ ls website/assets/
pexels-photo-10162701.jpeg  pexels-photo-11519194.jpeg  pexels-photo-7478593.jpeg
inoquendoosorio@cis106vm:~$ mv website/assets/pexels-photo-10162701.jpeg website/assets/image.png
inoquendoosorio@cis106vm:~$ mv website/assets/pexels-photo-11519194.jpeg website/assets/image2.png
inoquendoosorio@cis106vm:~$ ls website/assets/
image2.png  image.png  pexels-photo-7478593.jpeg
inoquendoosorio@cis106vm:~$ xdg -open website/index.html

Command 'xdg' not found, did you mean:
  command 'xdx' from deb xdx (2.5.0-2)
  command 'xdu' from deb xdu (3.0-20)
  command 'xd' from deb xd (3.29.00-2)
  command 'xdo' from deb xdo (0.5.7-1)
  command 'xdm' from deb xdm (1:1.1.11-3ubuntu2)

Try: sudo apt install <deb name>

inoquendoosorio@cis106vm:~$ xdg-open website/index.html
inoquendoosorio@cis106vm:~$

```

## Practice 4

A terminal window titled 'inoquendoosorio@cis106vm: ~' with standard macOS window controls (red, yellow, green buttons and a plus sign). The terminal shows a series of commands: 'mkdir website/docs', 'cp Downloads/sample1.docx website/docs/', 'cp Downloads/sample2.xls website/docs/', and 'cp Downloads/sample3.pdf website/docs/'. The output of the 'tree' command shows a directory structure with three files: sample1.docx, sample2.xls, and sample3.pdf. A summary line indicates '0 directories, 3 files'. The prompt returns to 'inoquendoosorio@cis106vm:~\$' with a cursor.

```
inoquendoosorio@cis106vm:~$ mkdir website/docs
inoquendoosorio@cis106vm:~$ cp Downloads/sample1.docx website/docs/
inoquendoosorio@cis106vm:~$ cp Downloads/sample2.xls website/docs/
inoquendoosorio@cis106vm:~$ cp Downloads/sample3.pdf website/docs/
inoquendoosorio@cis106vm:~$ tree website/docs/
website/docs/
├── sample1.docx
├── sample2.xls
└── sample3.pdf

0 directories, 3 files
inoquendoosorio@cis106vm:~$
```