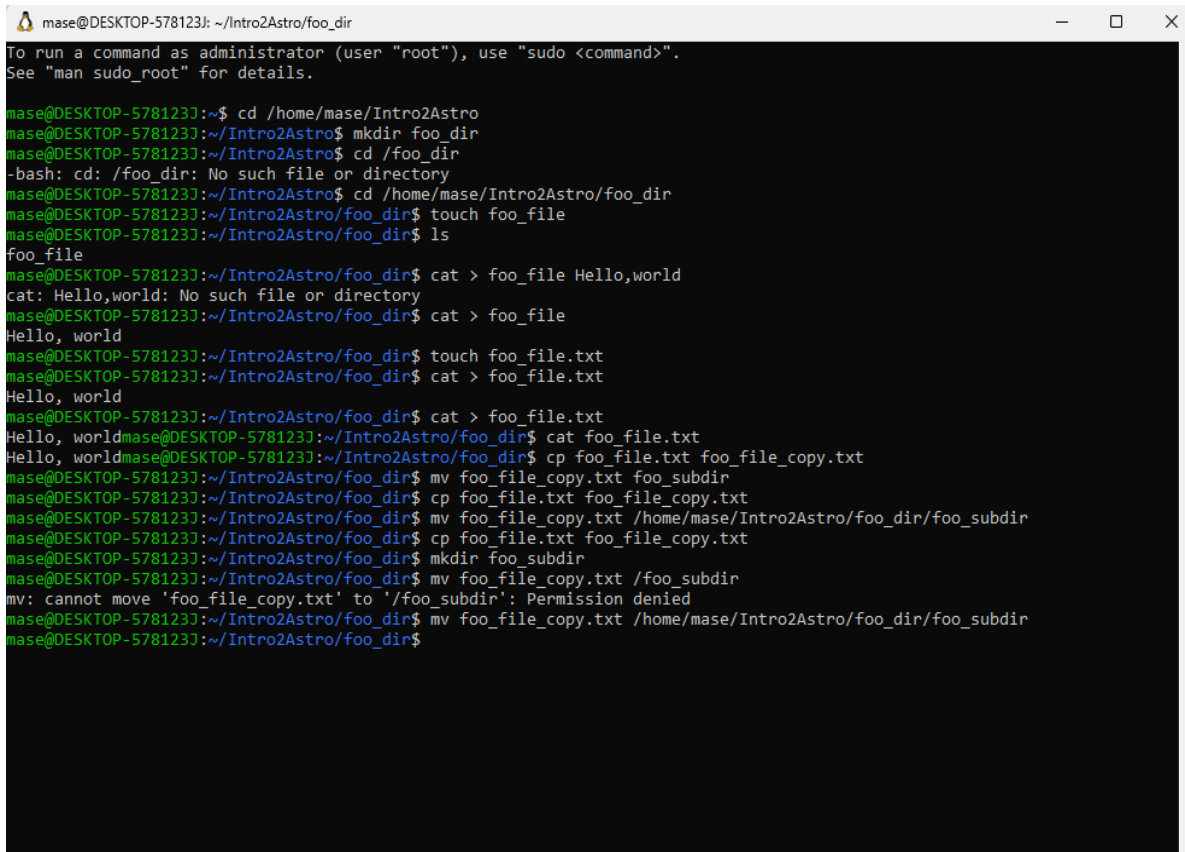


WEEK 1 SUMMARY REPORT

Masento Marco

Assignment 1

I wrote the code mentioned in the slides:



```
mase@DESKTOP-578123J: ~/Intro2Astro/foo_dir
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

mase@DESKTOP-578123J:~$ cd /home/mase/Intro2Astro
mase@DESKTOP-578123J:~/Intro2Astro$ mkdir foo_dir
mase@DESKTOP-578123J:~/Intro2Astro$ cd /foo_dir
-bash: cd: /foo_dir: No such file or directory
mase@DESKTOP-578123J:~/Intro2Astro$ cd /home/mase/Intro2Astro/foo_dir
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ touch foo_file
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ ls
foo_file
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ cat > foo_file Hello,world
cat: Hello,world: No such file or directory
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ cat > foo_file
Hello, world
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ touch foo_file.txt
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ cat > foo_file.txt
Hello, world
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ cat > foo_file.txt
Hello, worldmase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ cat foo_file.txt
Hello, worldmase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ cp foo_file.txt foo_file_copy.txt
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ mv foo_file_copy.txt foo_subdir
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ cp foo_file.txt foo_file_copy.txt
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ mv foo_file_copy.txt /home/mase/Intro2Astro/foo_dir/foo_subdir
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ cp foo_file.txt foo_file_copy.txt
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ mkdir foo_subdir
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ mv foo_file_copy.txt /foo_subdir
mv: cannot move 'foo_file_copy.txt' to '/foo_subdir': Permission denied
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$ mv foo_file_copy.txt /home/mase/Intro2Astro/foo_dir/foo_subdir
mase@DESKTOP-578123J:~/Intro2Astro/foo_dir$
```

I also completed the Carpentry workshop which helped me learn more about shell scripts and how to sort and find the files and lines needed. I have uploaded on drive some of the scripts that I have done in the workshop. The following are some screenshots i took when making the scripts:

Script to display the lines in a file:

```
mase@DESKTOP-578123J: ~/Intro2Astro/Assignments/Assignment-2/shell-lesson-data/exercise-data/alka...
GNU nano 7.2 middle.sh *
head -n "$2" "$1" | tail -n "$3"
# Select lines from the middle of a file
# Usage: bash middle.sh filename end_line num_lines
```

Script to sort files by their length:

```
mase@DESKTOP-578123J: ~/Intro2Astro/Assignments/Assignment-2/shell-lesson-data/exercise-data/alkanes
GNU nano 7.2 sorted.sh
# Sort files by their length.
# Usage: bash sorted.sh one_or_more_filenames
wc -l "$@" | sort -n
```

Script that runs another script for every file and outputs them as stats-datafile:

```
mase@DESKTOP-578123J: ~/Intro2Astro/Assignments/Assignment-2/shell-lesson-data/north-pacific...
GNU nano 7.2 do-stats.sh *
for datafile in "$@"
do
    echo $datafile
    bash goostats.sh $datafile stats-$datafile
done
# runs goostats.sh for every specified file
```

List of commands that i learned:

- pwd (tells your current directory you are in)
- ~ (tells your home directory)
- ls (lists all the files and folders in the current directory)
- cd [directory] (changes the directory)
- cd - (changes the working directory to the previous directory)
- cd ~ (changes the working directory to the home directory)
- cp [source file] [target file] (copies a file with a new [target file] name)
- touch [file] (creates a new file)
- mkdir [directory] (creates a new directory)
- mv [file] [destination] (moves a file in another destination/directory)
- cat [file] (prints the contents of the file)
- head -n 10 [file] (prints the first 10 lines of the file)
- tail -n 10 [file] (prints the last 10 lines of the file)
- sort -n [file] (sorts the contents of the file in numerical order)
- For thing in list_of_things (this is the structure of a loop needed to repeat commands)
- do
- commands
- done
- echo [string] (prints the object or string)
- history (used to display the last hundred or more commands)
- grep [string] [file] (search and return all line containing [string] in [file])
- find [string] [directory] (search and return all files in the directory)

Assignment 2

I read the articles and determined that the one that talks about a new way to communicate with extraterrestrial intelligent civilizations in the future is “Transit Lightcurve Signatures of Artificial Objects”.