# Question 1

## awk

- · Description:
  - The awk command is a scripting language used for processing and displaying text.
- Syntax/Formula:

```
• awk + options + {awk command} + file + file to save
```

• Example

```
• awk '{print}' jobs.txtawk '{print $1,$4}' jobs.txtawk '{print $1,NF}' jobs.txt
```

#### cat

- · Description:
  - The cat command is used for displaying the content of a file.
- Syntax/Formula:

```
• cat + option + files
```

- Example
- cat tree.lstcat -n ~/Documents/tree.md cat -E ~/Documents/tree.md

## cp

- · Description:
  - The cp command is used to copy files and directories from a source to a destination.
- Syntax/Formula:

```
• cp + file to copy + destination
```

- Example
  - cp Downloads/screenshots.jpg Pictures/cp -r ~/Downloads/screenshots
     ~/Pictures/cp Downloads/screenshots/\* ~/Pictures/

#### cut

- · Description:
  - The cut command is used to extract a specific section of each line of a file and display it to the screen.
- Syntax/Formula:

```
• cut + option + file
```

- Example
  - cus -b 1-10 employeenames.txtcut -d ',' --complement -s -f7 employeenames.txtcut -b 1,2,3 employeenames

## дгер

- · Description:
  - The grep command is used to search text in given file. Grep works line by line basis.
- Syntax/Formula:

```
    grep + option + search criteria + file
    Example
    grep -c "test" final test.txtgrep -i 'finaltest'
        ~/Documents/tests/finaltest.txtgrep -o 'finaltest'
```

## head

- Description:
  - The head command displays the top N number of lines of given file. It prints the first 10 lines.
- Syntax/Formula:
  - head + option + file
- Example
  - head -n 20 state.txthead -v state.txthead -q state.txt

#### ls

- · Description:
  - The ls command is used for displaying all the files inside a given directory.
- Syntax/Formula:

```
• ls + option + directory to list
```

~/Documents/tests/finaltest.txt

- Example
  - ls -als -1ls -A

#### man

- Description:
  - The man command in Linux is used to display the user manual of any command that we can run on the terminal.
- Syntax/Formula:
  - man + option + command name
- Example
  - man drinks man 5 drinks man -f drinks

## mkdir

- Description:
  - The mkdir command is used for creating a single directory or multiple directories.
- Syntax/Formula:
  - mkdir + name of the directory
- Example
  - mkdir games mkdir -p action/horror/comedy mkdir -v games

#### mv

- Description:
  - The mv command is used to moves and rename directories.
- Syntax/Formula:

```
• mv + source + destination
```

- Example
  - mv food /home/grocery mv Download/food.txt Documents/ mv phones/ music/ sounds/ media/iphone/

#### tac

- Description:
  - The tac command is used for displaying the content of a file in a reverse order.
- Syntax/Formula:

```
• tac + option + files
```

- Example
  - tac bike.md tac ~/Documents/bike.md tac -r bike.md

#### tail

- Description:
  - The tail command displays the last N number of lines of a given file. It prints the last 10 lines.
- Syntax/Formula:

```
• tail + option + file
```

Example

```
• tail -n 7 streets.txt tail -c 7 streets.txt tail -v streets.txt
```

## touch

- Description:
  - The touch command is used for creating files.
- Syntax/Formula:
  - touch + list
- Example
  - touch videos touch -a videos touch -c videos

#### tr

- Description:
  - The tr command is used for translating or deleting characters from standard output.
- Syntax/Formula:

```
• standard output | tr + option + set + set
```

• Example

```
o cat movies.mov | tr [a-z] [A-Z] cat movies.mov | tr '.' ','cat
movies.mov | tr "[:space:]" '\t'
```

#### tree

- Description:
  - The tree command is used for displays directory paths and files in each subdirectory.
- Syntax/Formula:
  - tree + option

- Example
  - tree tables tree -p clothes.txt tree -a ./brands

# Question 2

# How to work with multiple terminals open?

Having several open terminals can be helpful for a variety of tasks, like monitoring various processes or executing multiple commands at once.

# How to work with manual pages?

Man pages, is an essential ability for navigating and using command-line utilities on operating systems similar to Unix.

# How to parse (search) for specific words in the manual page

Just hit /, and type your search pattern or find all of the long arguments

# How to redirect output (> and |)

The > operator is used to redirect the standard output of a command to a file. command output + > + file To pass the output of one command as the input of another, use the pipe operator |. ls | grep "pattern"

# How to append the output of a command to a file

command >> filename If the file doesn't already exist, this operator creates it and appends the output to it.

## How to use wildcards

1s -A \*apple\* this command will list all the files that have 'apple' in the name.

# How to use brace expansion

mkdir - p video/{movies, shows}/{movfiles, films}/new{1..2} creates 2 different directories
inside video directory