# Assignments 2

## Task 1:

\*\*No. 1 - The Shell\*\*

### Exercises

1. \*\*Outputs the date and time\*\*

``` bash

$ date

```

\*\*Output:\*\*

```plaintext

Mon Oct 29 12:34:56 UTC 2024

```

2. \*\*Outputs the username of the currently logged-in use\*\*

``` bash

$ whoami

```

\*\*Output:\*\*

```plaintext

Rebekka

```

### Ouiz:

What should be outputted to the display when you type echo Hello World?

- Hello World

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\*\*No.2 - pwd\*\*

### Exercises

\*\*Outputs the complete path of the current directory you are in within the filesystem\*\*

### Quiz:

How do I find what directory you are currently in?

- pwd

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\*\*No. 3 - cd\*\*

\*\*command to change the current directory\*\*

### Exercises

1. Run the cd command without any flags, where does it take you?

-When you run the cd command without any flags or arguments, it takes you to your home directory.

### Quiz:

If you are in /home/pete/Pictures and wanted to go to /home/pete, what’s a good shortcut to use?

- cd ..

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\*\*No.4 - ls\*\*

### Exercises

\*\*The command \*ls\* is used in the command line to list files and directories in the current directory\*\*

- ls -R: Lists all files and directories recursively.

- ls -r: Displays files in reverse order.

- ls -t: Sorts files by modification date, with the newest first.

### Quiz:

What command would you use to see hidden files?

- ls -a

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\*\*No. 5 - touch\*\*

\*\*The touch command is used to create one or more files or to update their timestamps.\*\*

### Exercises

- Create a new file:

``` bash

$ touch

```

\*\*Output:\*\*

```plaintext

NeueDatei

```

- Note the timestamp:

``` bash

$ ls -l NeueDatei.txt

```

- Touch the file and check the timestamp once again:

``` bash

$ touch NeueDatei.txt

```

###Quiz

How do you create a file called myfile?

- touch myfile

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\*\*No. 6 - file\*\*

### Exercises

\*\*To determine the file type, you can use the file command. It will provide a description of the file's contents.\*\*

###Quiz

What command can you use to find the file type of a file?

- file

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\*\*No. 7 - cat\*\*

### Exercises

\*\*Run cat on different files and directories. Then try to cat multiple files.\*\*

The cat command is used to display the contents of files, combine multiple files, or quickly read text files.

###Quiz

What's a good way to see the contents of a file?

- cat

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\*\*No. 8 - less\*\*

### Exercises

\*\*Run less on a file, then page up and around the file. Try searching for a specific word. Quickly navigate to the beginning or the end of the file.\*\*

less allows you to read and navigate large text files in a clear and interactive way.

###Quiz

How do you quit out of a less command?

- q

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\*\*No. 9 - history\*\*

### Exercises

\*\*Navigate through your previous command history with the Up and Down keys. Play around with ctrl-R reverse search.\*\*

-With the up arrow key, you navigate to previous commands, and with the down arrow key, you navigate to more recent commands.

-With Ctrl-R, you search through previous commands.

###Quiz

- clear

\*The clear command only clears the visible output in the terminal, meaning everything that has been displayed on the screen so far. The commands and their outputs are not actually deleted – they just disappear from the visible area. The command history remains intact and can still be accessed using the arrow keys or the history command.\*

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