## **Exercise-Bash**

# **Question:**

What is difference between shell and bash?

• "shell" is a broad term that refers to any program that provides a command-line interface, "Bash" is a specific type of shell that is widely used in Unix/Linux systems.

#### **Exercise 1:**

What is your home directory? What files/folders exist in your home directory? Navigate to it and then navigate back to your notes.

Home directory is the default directory for a user on a computer that a shell takes you to when you open it.

#### **Exercise 2:**

Where does the following command take you? How does it work?

This command takes you to the root directory of my computer, which does this by starting from the home directory with the tilde, then using 2 periods separated by slashes to indicate going back and does this 3 times

#### **Exercise 3:**

Read the manual page of 1s. What does the a flag do? What does the 1 flag do?

The 'a' flag includes directories whose names begin with a dot, and the 'l' flag follows the symbolic links to their final target and lists their file or directory that it links to.

### **Exercise 4:**

Create a new file with touch command. for instance touch myfile.txt. Run stat myfile.txt what information do you get?

```
16777234 73659121 -rw-r--r-- 1 jasamius staff 0 0 "Jul 6 21:09 :32 2024" "Jul 6 21:09:32 2024" 4096 0 0x40 myfile.txt
```

The data is size, access permissions, user/group ID, birth time and access of the file.

#### **Exercise 5:**

Run 1s and from there list select a file. Now run 'ls -l' to display the details of the files, showing that it has been created or updated. what information does it give you regarding the myfile.txt and your selected file.

It displays the date and time of its last edit, and the filesize. My chosen file had an edit date of June 2<sup>nd</sup>, myfile.txt is at current date recent time. Myfile.txt also has a filesize of 0.

#### **Exercise 6:**

Add the following line This line is my first line to myfile.txt. Then run cat myfile.txt to show the line is added.

```
Macbook:data-413 jasamius$ echo "This is my first line" > myfil
e.txt
Macbook:data-413 jasamius$ cat myfile.txt
This is my first line
Macbook:data-413 jasamius$
```

#### Exercise 7:

Run touch myfile.txt then run ls -1 myfile.txt does the "timestamp" for the file myfile.txt is updated? Show the output. Note: Another common use of the touch command is to update the timestamps of an existing file.

```
Macbook:data-413 jasamius$ touch myfile.txt
Macbook:data-413 jasamius$ ls -l myfile.txt
-rw-r--r-- 1 jasamius staff 22 Jul 6 21:22 myfile.txt
Macbook:data-413 jasamius$
```

It updates the timestamp