

# Learning Journal

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## **The Unix Shell (Task 1)**

Main Objective: To complete the Unix Shell exercise till Working Files And Directories.

Objective: Set up on my computer ( done in class)

1. Action: open <https://gitforwindows.org/>
2. Click download
3. Click open git bash

Error: None

Result: Success.

### [Introducing the Shell](#)

Objective: *What is a command shell and why would I use one?*

The Shell is a program which runs other programs rather than doing calculations itself. Those programs can be as complicated as climate modelling software and as simple as a program that creates a new directory. The simple programs which are used to perform stand-alone tasks are usually referred to as commands. The most popular Unix shell is Bash.

## Navigating Files and Directories

**Objective:** Exploring More ls Flags

**Action:**

Type `ls -l`

Result: Shows the file/directory and file size

Type `ls -h`

Result: Makes it human readable, more clearer.

Type `ls -a` (`ls -all`)

Result: Shows all of the files in current directory, including hidden files.

**Objective:** Listing Recursively and By Time

Action: Type `ls -R -t`

Result: Files sorted by the time of last change. The text showed up with no end. I got confused what to do next so I closed it and reopened it again.

**Objective:** To see inside desktop

Action: Type `ls -F desktop`

Result:

```
$ ls -F Desktop
```

```
ls: cannot access 'Desktop': No such file or directory
```

But accidentally `$ ^C` popped up. Don't know what to do.

As I reopened git-bash I was in the wrong directory. I typed cd and now I am in home directory.

Result: Success

Objective: Move to data directory.

Action: Type the following series of commands one after the other.

```
$ cd Desktop  
  
$ cd data-shell  
  
$ cd data
```

**Following is the result:**

```
$ cd desktop
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~/desktop
```

```
$ cd data shell
```

```
bash: cd: too many arguments
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~/desktop
```

```
$ cd data-shell
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~/desktop/data-shell
```

```
$ cd data
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~/desktop/data-shell/data
```

Success.

Objective: Move up a directory.

Action: Type `cd . .`

Error: `$ cd . .`

`bash: cd: too many arguments`

Solution: removed the space between `.`, it worked.

Result: success

Objective: Move to home directory.

Action:

- To go back to home directory, type `cd`
- To move to data in a single step, type `cd desktop/data-shell/data`
- Type `pwd` to check where I am, it shows:

```
$ pwd
/c/Users/user/desktop/data-shell/data
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~/desktop/data-shell/data
```

Result: success.

Objective: Absolute Vs Relative paths.

Action: To get back to the home directory, following commands are tried with the result 5,8 and 9 are correct.

```
$ cd .
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~/desktop/data-shell/data
```

```
$ cd /
```

```
user@DESKTOP-GQ5AL0D MINGW64 /  
$ cd /home/  
bash: cd: /home/: No such file or directory
```

```
user@DESKTOP-GQ5AL0D MINGW64 /  
$ cd ../../
```

```
user@DESKTOP-GQ5AL0D MINGW64 /  
$ cd ~
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~  
$ cd home  
bash: cd: home: No such file or directory
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~  
$ cd ~/data/..  
bash: cd: /c/Users/user/data/..: No such file or directory
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~  
$ cd
```

```
user@DESKTOP-GQ5AL0D MINGW64 ~  
$ cd ..
```

```
user@DESKTOP-GQ5AL0D MINGW64 /c/Users
```

Result: Success.

Objective: Relative Path Resolution

The command `ls -F ../backup` displays:

```
Error:$ ls -F ../backup  
ls: cannot access '../backup': No such file or directory
```

Result: not able to resolve, will ask Brian or Katheryn in class.

Objective: [ls](#) Reading Comprehension

Action: Type:

```
$ ls -r -F
user/  public/  desktop.ini  'Default User'@  Default/  'All Users'@

user@DESKTOP-GQ5AL0D MINGW64 /c/Users
$ ls -r -F/Users/backup
ls: unknown option -- /
Try 'ls --help' for more information.

user@DESKTOP-GQ5AL0D MINGW64 /c/Users
$ ls -r -F /Users/backup
ls: cannot access '/Users/backup': No such file or directory

user@DESKTOP-GQ5AL0D MINGW64 /c/Users
$ ls pwd
ls: cannot access 'pwd': No such file or directory

user@DESKTOP-GQ5AL0D MINGW64 /c/Users
```

Result: Second option gives the result but not the third one, will consult Brian.

### [Working With Files and Directories](#)

Objective: To create a Directory

Action: Type mkdir thesis

```
$ mkdir thesis
mkdir: cannot create directory 'thesis': Permission denied
```

Result: Error, again it has to be consulted.

Objective: To create a text file

Action:

- Type nano draft.txt to make a new file
- Type text
- Press ctrl O to save the text
- Press ctrl X to quit out

Result: Success.

Objective: Creating files a different way

Action: type touch my\_file.txt

Result: \$ touch my\_file.txt

touch: cannot touch 'my\_file.txt': Permission denied

Result: not sure how to resolve this.

Objective: Copying files and directories.

Action:

```
$ cp quotes.txt thesis/quotations.txt
```

```
cp: cannot stat 'quotes.txt': No such file or directory
```

```
user@DESKTOP-GQ5AL0D MINGW64 /
```

```
$ ls quotes.txt thesis/quotations.txt
```

```
ls: cannot access 'quotes.txt': No such file or directory
```

```
ls: cannot access 'thesis/quotations.txt': No such file or directory
```

Result: Error.

All Commands are showing some errors. I have tried all the commands but facing errors in everything. Don't have any option other than consulting Brian during consultation time. I am not able to complete the last exercise due to these errors, but I tried as the wide range of commands are overwhelming. Hope to understand in consultation with Brian or Shawn.

**Overall Result:** Not able to complete third exercise but successfully completed the earlier ones.

## **TASK 2 – ELABORATION 1**

This week we were required to complete Elaboration 1, for this purpose the scoping has been narrowed down to finding referencing and citation managing tools that can assist in speed and accuracy in citation and formatting the references.

This has been successfully uploaded to Cloudstor in pdf and committed to github.





