

CS2211 2023
Assignment number 1
James Wong
251297165
jwong988
Sept 21 2023

1. Answer the following questions.

a. What is an operating system?

An operating system runs directly on the hardware. It is used to manage the hardware by providing a much simpler interface for programs. If hardware changes, software does not, the operating system must be able to handle it

b. What is a kernel of an operating system?

The Kernel is the core of an operating system. It manages the processes and resources while also controlling and hiding the hardware.

c. What is a shell in the Unix operating system?

A Shell in the Unix operating system is an environment or a special program. More specifically, it is a command line interpreter (CLI), which is an interface between users and the kernel.

2.

a. What command do you use to create a directory?

The command to create a new directory is `mkdir`

b. What command do you use to create a text file?

The command to create a new txt file is `cat > filename.txt` or `vi filename.txt`

3.

a. What is the result of command `/usr/bin/ls df2 df1 tf2 tf1`

`tf1 tf2`

`df1:`

`df1`

`df2:`

`tf1`

b. What `ls` option(s) should we use if we want to display permission information? (hint: use `man ls` and check options related to long format).

`/usr/bin/ls -l df1 df2`

c. What option(s) should we add to `/usr/bin/ls df1 df2` to display permission information of `df1` and `df2` but not their contents? (hint: use `man ls` and check options related to directory).

We can add `/usr/bin/ls -d df1 df2` which list directories themselves, but not their content

- d. Compare the results of commands `/usr/bin/ls` and `/usr/bin/ls .` , are the results different and why?

The results are the same because the dot just represents your current directory. Without the dot there would be no argument which defaults to the current directory