

CS2211b 2023
Assignment 1
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Question 1

a. What is an operating system?

An operating system (OS) is a user-friendly very helpful system that manages a computer's hardware, as it runs on and uses the hardware to create a simple interface for the user like scheduling tasks, allocating computer resources, easy interface to navigate through the computer, run multiple programs at once, etc.

b. What is a kernel of an operating system?

A kernel is the core of an operating system, as it manages the processes and resources of the OS, as well as controls and hides the hardware to create a simpler and user-friendly environment and interface.

c. What is a shell in Unix operating system?

A shell is an environment or special program which is used as an interface between users and the kernel, and it does as it is a command line operator, which permits the interaction between the user and the kernel in order to execute commands for programs on the computer

Question 2

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

mkdir

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

touch

Question 3

a. The result of the command is:

```
/usr/bin/ls: cannot access 'tf2': No such file or directory
```

```
/usr/bin/ls: cannot access 'tf1': No such file or directory
```

```
df1:
```

```
df1.txt
```

```
df2:
```

```
df2.txt
```

b. -l, -n, -o, --format=long

c. /usr/bin/ls df1 df2 -d -l (could be option above other than l)

d. The results are the same because a single period afterwards denotes the current directory, and ls lists the current directory by default, thus listing the same thing.