CS2211 2023
Assignment number: 1
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1.a
The operating system operates directly on the computer's hardware and is responsible
 for managing hardware resources. It takes the confusion of the hardware, providing
a simplified interface for software programs to interact with. If there are changes
in the hardware, the software remains unaffected, as it is the operating system's re
sponsibility to adapt. By efficiently allocating hardware resources, the operating s
ystem enables multiple programs to run concurrently. This management not only simpli
fies the user experience but also makes software development more less complex.

1.b
The kernel plays an important role in the operating system. It acts as a gateway bet
ween the computer's hardware and software allowing it to manage the computer's resou
rces. It is responsible for things like process and memory management, file systems,
 and device managers.

1.c
A shell in a unix operating system is a command line that provides a user interface
to work with the operating system. It takes commands from the user and the computer
will call a function or program. A shell allow you to run code and do file managemen
t.

2.a
mkdir {directory_name}
where directory_name is the name you want to give the directory youre creating

2.b
vi filename.txt
where filename is the name of the text file you want to create

3.a
tf1 tf2

df1:
df1.txt

df2:
tf1

3.b
ls -l

3.c
/usr/bin/ls -ld df1 df2

3.d
The results are the same. The . in the second command represents the current directo
ry. But running /usr/bin/ls already lists the content of the current directory.