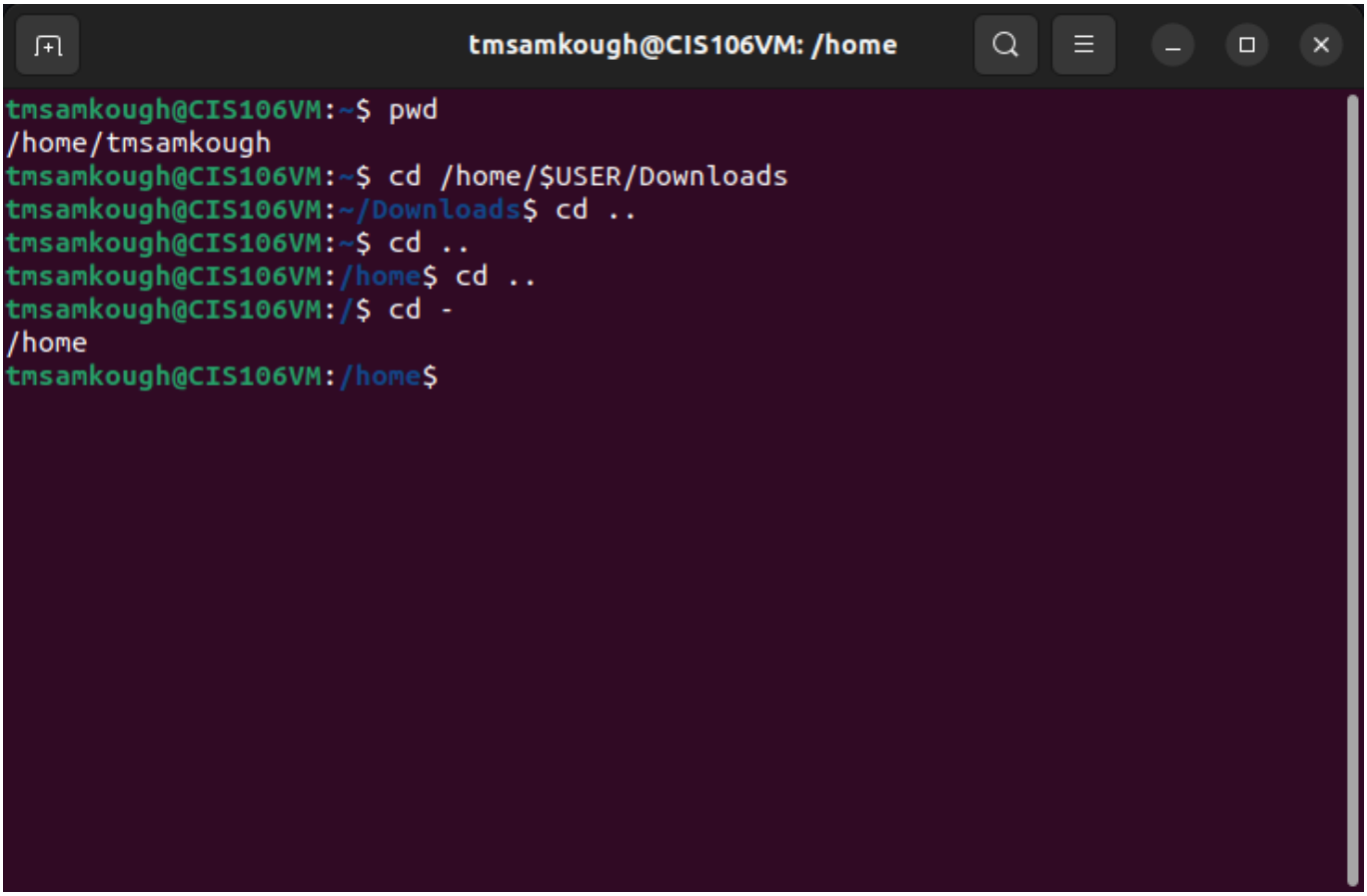
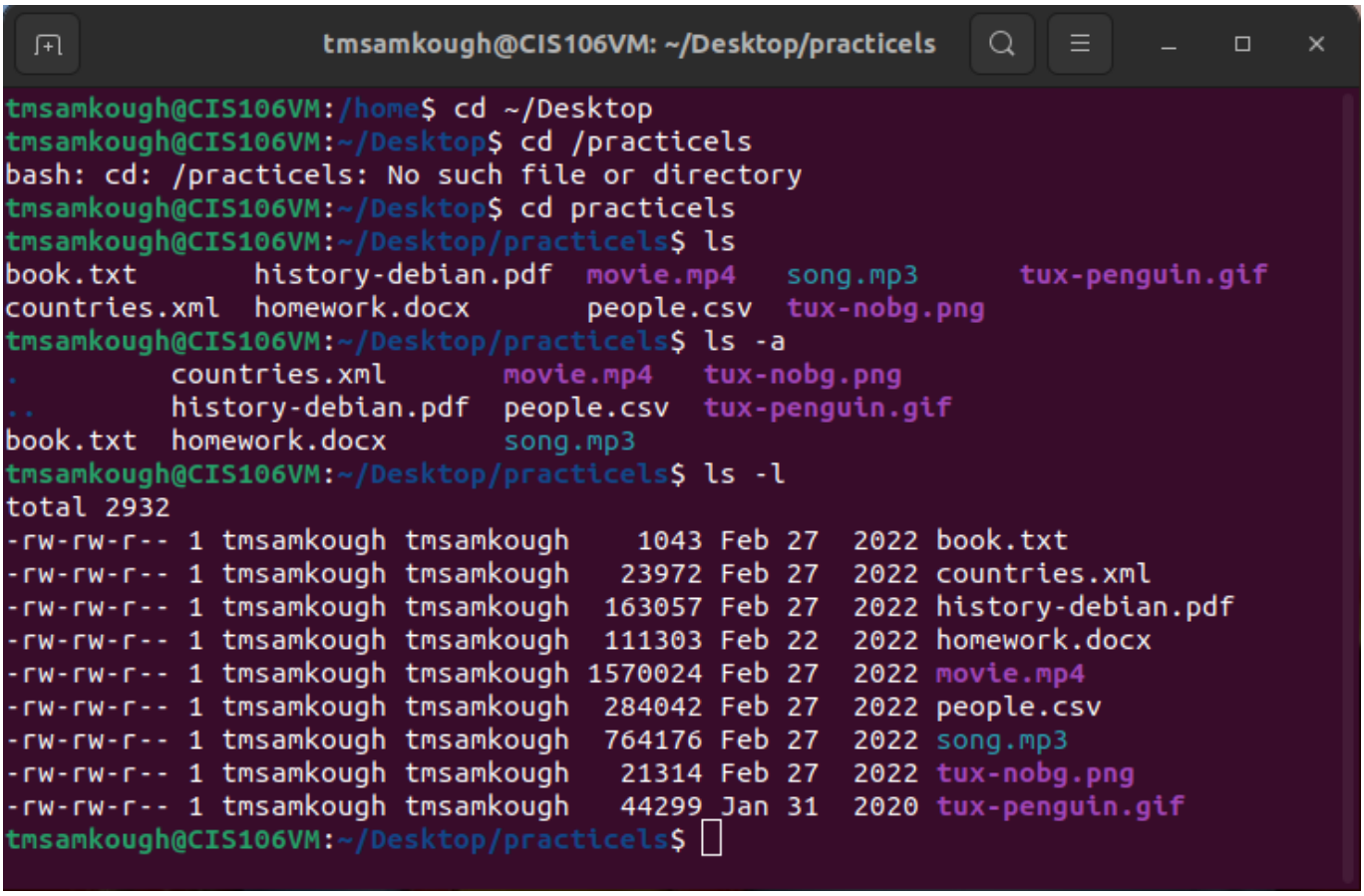
Week Report 4

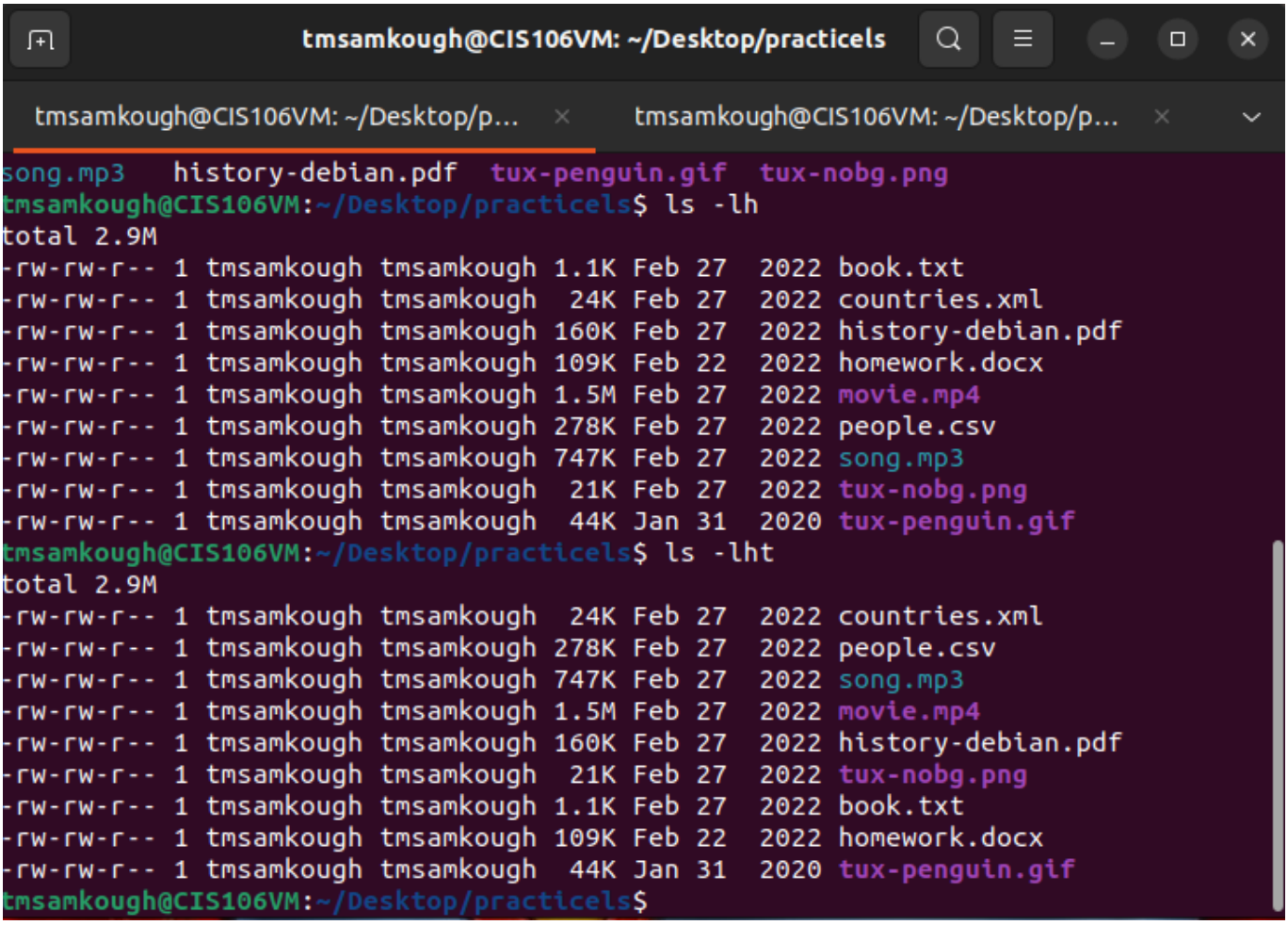
Practice from the presentation The Linux File System:

Practice 1



Practice Question 2


tmsamkough@CIS106VM: ~/Desktop/practicels
tmsamkough@CIS106VM:/home$ cd ~/Desktop
tmsamkough@CIS106VM:~/Desktop$ cd /practicels
bash: cd: /practicels: No such file or directory
tmsamkough@CIS106VM:~/Desktop$ cd practicels
tmsamkough@CIS106VM:~/Desktop/practicels$ ls
book.txt history-debian.pdf movie.mp4 song.mp3 tux-penguin.gif
countries.xml homework.docx people.csv tux-nobg.png
tmsamkough@CIS106VM:~/Desktop/practicels$ ls -a
. countries.xml movie.mp4 tux-nobg.png
.. history-debian.pdf people.csv tux-penguin.gif
book.txt homework.docx song.mp3
tmsamkough@CIS106VM:~/Desktop/practicels$ ls -l
total 2932
-rw-rw-r-- 1 tmsamkough tmsamkough 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 tmsamkough tmsamkough 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 tmsamkough tmsamkough 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 tmsamkough tmsamkough 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 tmsamkough tmsamkough 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 tmsamkough tmsamkough 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 tmsamkough tmsamkough 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 tmsamkough tmsamkough 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 tmsamkough tmsamkough 44299 Jan 31 2020 tux-penguin.gif
tmsamkough@CIS106VM:~/Desktop/practicels$


tmsamkough@CIS106VM: ~/Desktop/practicels
tmsamkough@CIS106VM: ~/Desktop/p...
tmsamkough@CIS106VM: ~/Desktop/p...
song.mp3 history-debian.pdf tux-penguin.gif tux-nobg.png
tmsamkough@CIS106VM:~/Desktop/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 tmsamkough tmsamkough 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 tmsamkough tmsamkough 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 tmsamkough tmsamkough 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 tmsamkough tmsamkough 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 tmsamkough tmsamkough 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 tmsamkough tmsamkough 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 tmsamkough tmsamkough 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 tmsamkough tmsamkough 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 tmsamkough tmsamkough 44K Jan 31 2020 tux-penguin.gif
tmsamkough@CIS106VM:~/Desktop/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 tmsamkough tmsamkough 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 tmsamkough tmsamkough 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 tmsamkough tmsamkough 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 tmsamkough tmsamkough 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 tmsamkough tmsamkough 160K Feb 27 2022 history-debian.pdf
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-rw-rw-r-- 1 tmsamkough tmsamkough 1.1K Feb 27 2022 book.txt
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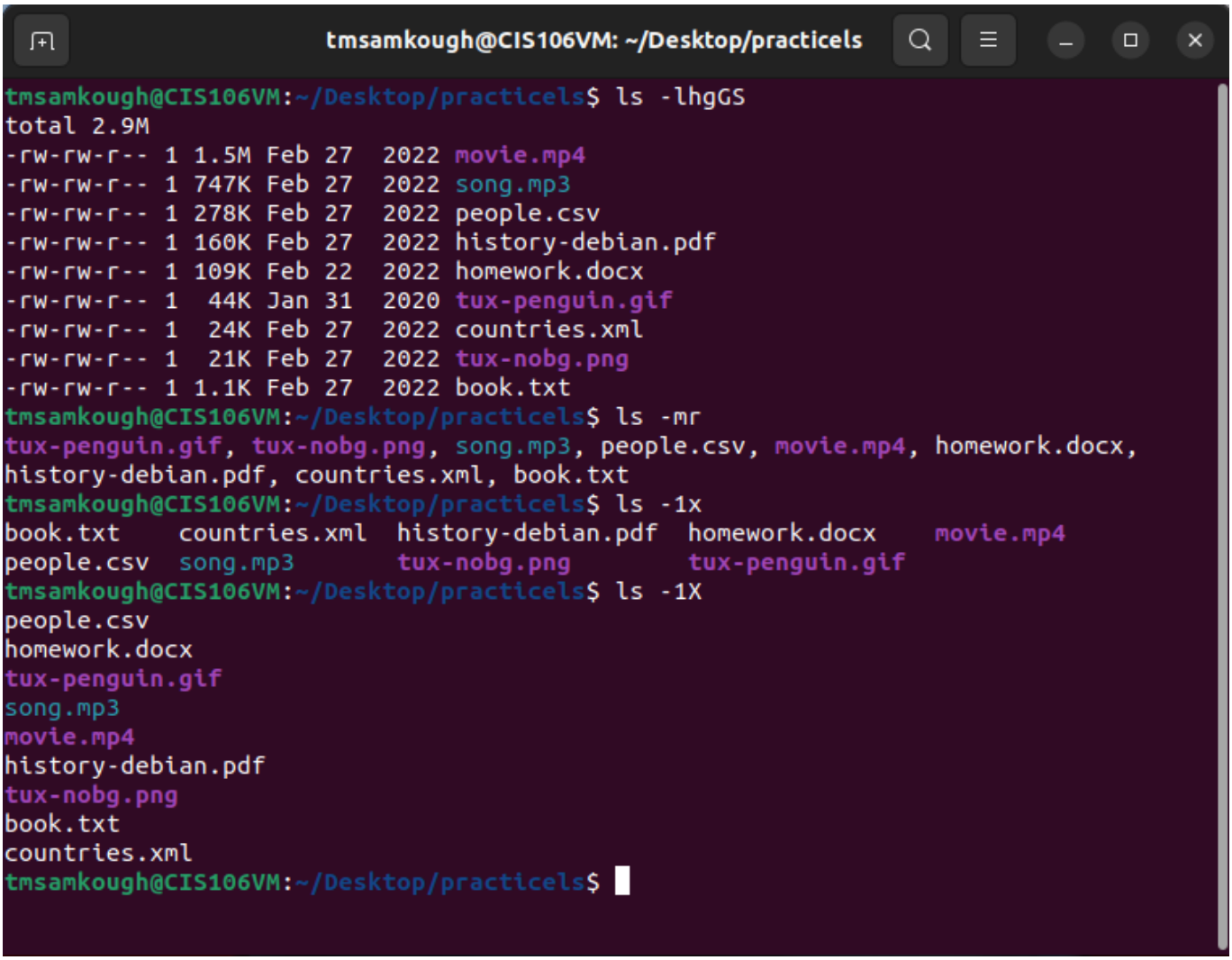
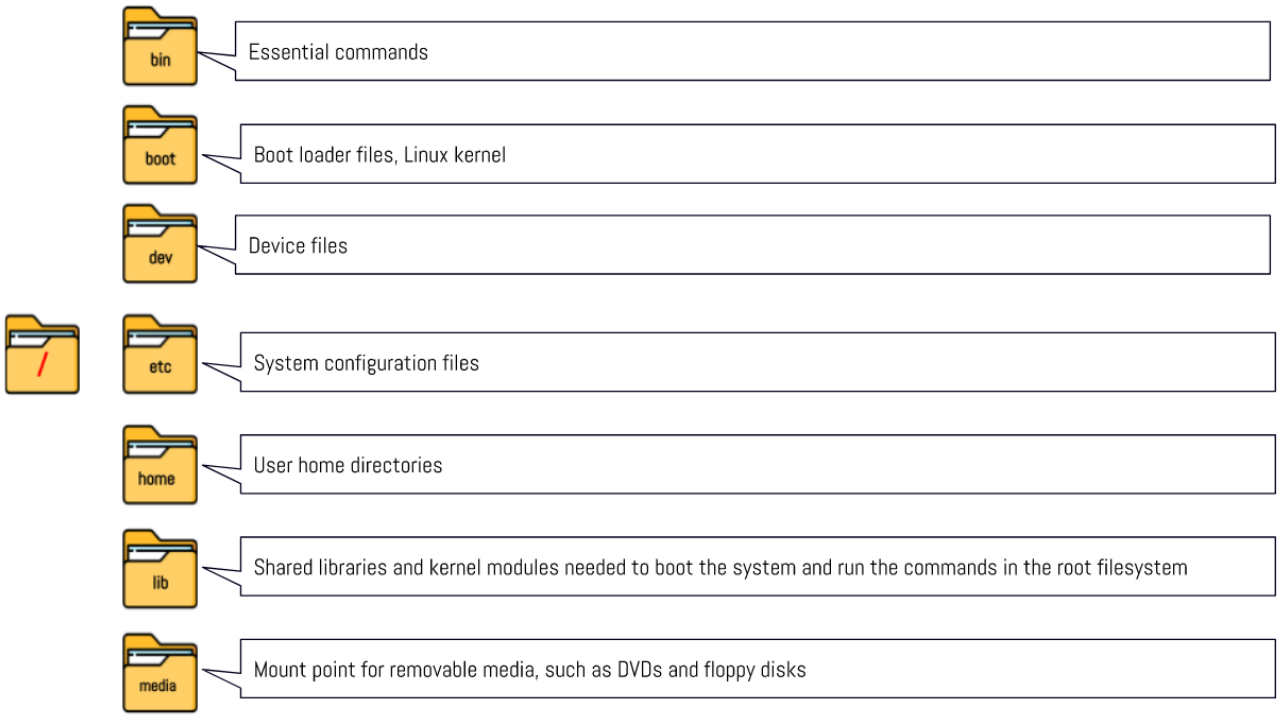
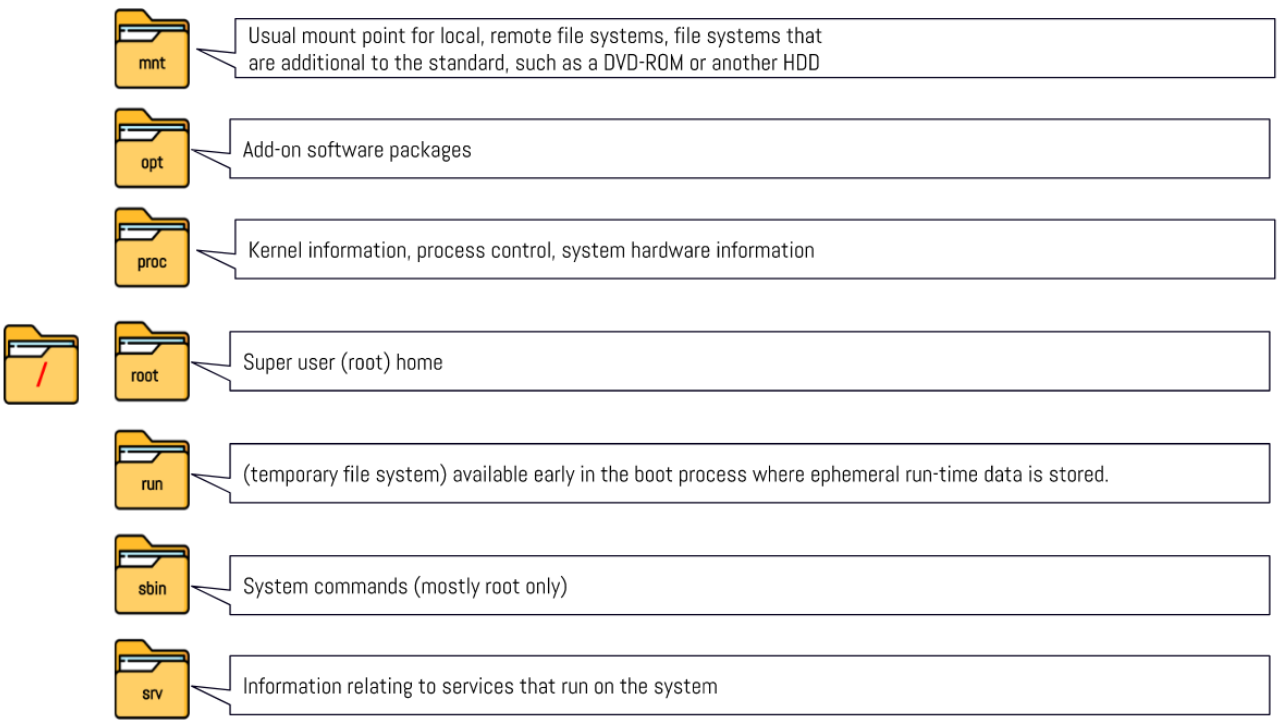
-rw-rw-r-- 1 tmsamkough tmsamkough 44K Jan 31 2020 tux-penguin.gif
tmsamkough@CIS106VM:~/Desktop/practicels$

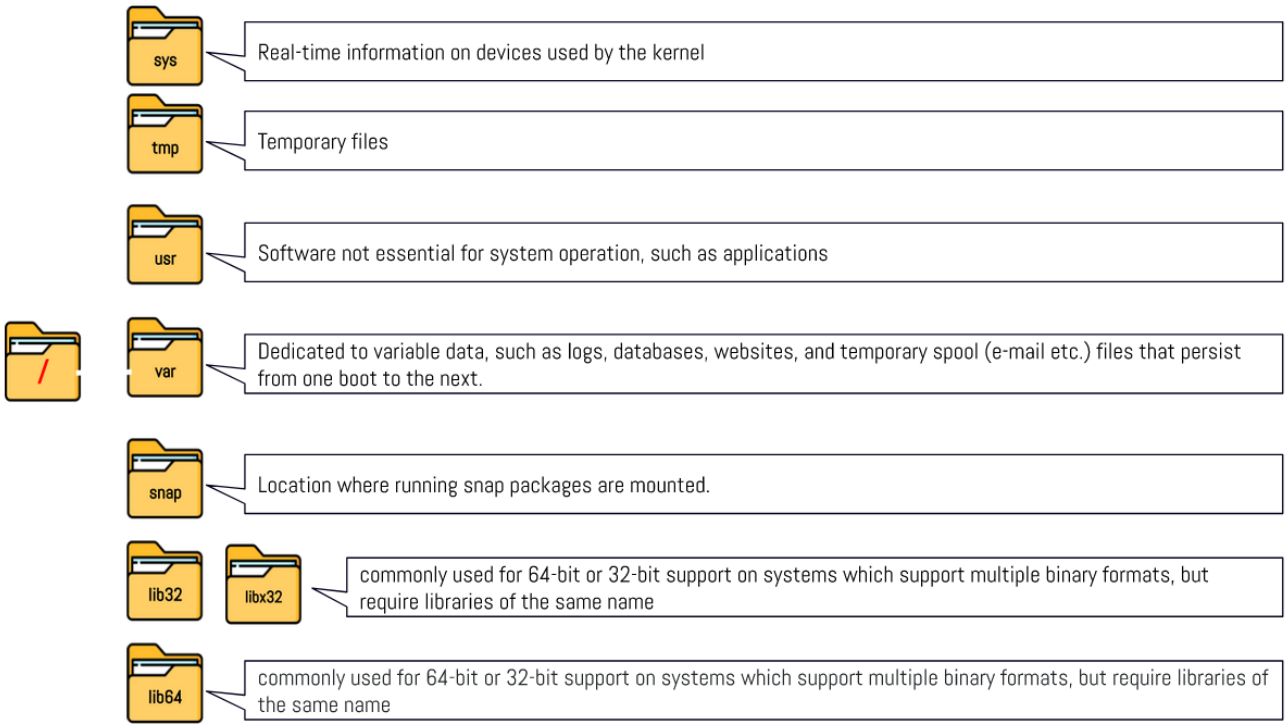


Practice 3

The Linux File system directories and their purpose


/
bin
Essential commands
boot
Boot loader files, Linux kernel
dev
Device files
etc
System configuration files
home
User home directories
lib
Shared libraries and kernel modules needed to boot the system and run the commands in the root filesystem
media
Mount point for removable media, such as DVDs and floppy disks


/
mnt
Usual mount point for local, remote file systems, file systems that are additional to the standard, such as a DVD-ROM or another HDD
opt
Add-on software packages
proc
Kernel information, process control, system hardware information
root
Super user (root) home
run
(temporary file system) available early in the boot process where ephemeral run-time data is stored.
sbin
System commands (mostly root only)
srv
Information relating to services that run on the system



All the commands for navigating the filesystem

Command	What it does	Syntax	Example
pwd	prints current directory	pwd	'pwd'
cd	used for changing the current working directory	cd	cd /tmsamkough
ls	used for display all files in a listed directory	ls	ls -S

Terminology

File System : The way files are stored and organized current Directory : the directory you are at the moment parent directory : the primary directory or top directory of other sub directories Difference between YOUR HOME Directory and the HOME DIRECTORY : Home directory is just /home while my home directory is /home/tmsamkough pathname : location of the file in a file system relative path : the location of a file starting from the current working directory or a directory that is located inside the current working directory absolute path : the location of a file starting a the root of the file system