# 1. Write a shell script which will execute the following set of tasks:

# a) Create a folder named ‘sample’ in your ‘home’ directory

mkdir -p sample

# b) Inside sample folder, create a file called ‘sample.txt’

cat > sample.txt

# c) Add the following content to the file:

# Hi! This is just a sample text file created using a shell script.

cat >> sample.txt

Hi! This is just a sample text file created using a shell script.

# d) Print the contents of the file.

cat sample.txt

# e) Print the number of occurrences of letter ‘t’ in ‘sample.txt’

grep -o -i 't' sample.txt | wc -l

# f) Change the owner's permissions to allow all the operations on the file. ( Read, Write, Execute )

chmod u+rwx sample.txt

# g) Write a command to append following content in sample.txt file:

#Hi! This is just another sample text added to the file.

cat >> sample.txt \

Hi! This is just another sample text added to the file.

# h) Change the group permissions to allow only read operation.

chmod g=r sample.txt

# i) Change all users permission to deny any sort of access to ‘sample.txt’

chmod u-rwx sample.txt

# j )Write a command to create a file named sample2.txt with content similar to that of sample.txt

cat sample.txt >> sample2.txt

# k) Add some random 1000 lines in the sample.txt file.

for i in {1..1000}; do echo "Random Lines $i" >> sample.txt; done

# l) Write a command to print the top 50 lines of the file

head -50 sample.txt

# m) Write a command to print the bottom 50 lines of the file

tail -50 sample.txt

# n) Add 5 files in the same folder named: prog1.txt, prog2.txt, program.txt, code.txt, info.txt

touch prog1.txt prog2.txt program.txt code.txt info.txt

# o) Write the command to list files which have “prog” in its name

ls | grep 'prog'

# p) Create an alias of the command used at step o. Such that following command - `list prog`, should have the same output as of command at step o.

alias prog\_list='ls | grep "prog"'