Q1) Create a directory "exercise" inside your home directory and create nested(dir1/dir2/dir3) directory structure inside "exercise" with single command.

sudo mkdir -p excercise/dir1/dir2/dir3

Q2) Create two empty files inside dir2 directory: emptyFile1, emptyFile2 in single command

sudo touch emptyFile1 emptyFile2

Q3) Create one file file1.txt containing text "hello world" and save it.

cat > hello.txt
hello World

Q4) Find a "passwd" file using find command inside /etc. copy this files as passwd_copy and then rename this file as passwd_backup.

find passwd
cp passwd "/home/himanshuagrawal/Desktop/passwd_copy"
mv passwd_copy passwd_backup

Q5) Try reading passwd_backup file in multiple tools: less,more,cat,strings etc and find the difference in their usage.

head passwd_backup -> Prints first 10 lines
tail passwd_backup -> Prints last 10 lines
more passwd_backup -> Prints major part and then reloads on scrolling
less passwd_backup -> Prints less part and then reloads on scrolling

Q6) Find out the number of line in password_backup containing "/bin/false".

grep -c "/bin/false" passwd_backup

Q7)Get the first 5 lines of a file "password_backup" and Redirect the output of the above commands into file "output". Also, get the lines 6-10 from the above file.

head -n 5 passwd_backup > output
head output | tail -n 4

Q8) Create a "test" user,create its password and find out its uid and gid.

sudo adduser test
id -u test
id -g test

Q9) Change the timestamp of emptyFile1, emptyFile2 which are exist in dir2

sudo touch -t 202312291235 emptyFile1 emptyFile2

Q10) Create alias with your name so that it creates a file as "/tmp/aliastesting".

alias create='sudo mkdir -p "tmp/aliastesting"'

Q11) Edit ~/.bashrc file such that when you change to "test" user it should clear the screen and print "Welcome".

find bashrc in user/home dir
nano .bashrc
echo "Welcome"

Q12) Compress "output" and "password_backup" files into a tar ball. List the files present inside the tar created.

tar cvf 'out.tar' output.txt passwd_backup.txt

Q14) How to get help of commands usages.

man ls
man cd
man man

nano --help
gedit --help
head --help