Linux Practical Exam

1. Write a command to create new folder

mkdir foldername

```
helly@sf-cpu-383:~$ mkdir linux
helly@sf-cpu-383:~$ ls
3.txt       Documents   File1  hgg    Music          OnTime_Logs  snap       test.txt
bhg         Downloads   Form   linux  musichardlink  Pictures     Templates  Videos
Desktop  f            helly  ls     new            Public       test2      模板
```

2. Write a command to find the current path of the folder

pwd

```
helly@sf-cpu-383:~$ pwd
/home/helly
helly@sf-cpu-383:~$ _
```

3. Write a command to move into new created folder

cd foldername

```
helly@sf-cpu-383:~$ cd linux
helly@sf-cpu-383:~/linux$ _
```

4. Write a command to create new file

touch filename

```
helly@sf-cpu-383:~/linux$ touch linux1.txt
helly@sf-cpu-383:~/linux$ ls
linux1.txt
helly@sf-cpu-383:~/linux$ _
```

5. Write a command to add some content in a file

cat > filename - It will overwrite.

cat >> filename - It will append content.

vi filename – Using Vim/Vi editor

```
helly@sf-cpu-383:~/linux$ cat > linux1.txt
Hello
```

```
helly@sf-cpu-383:~/linux$ cat > linux1.txt
Hello
helly@sf-cpu-383:~/linux$ cat >> linux1.txt
Hello 2
helly@sf-cpu-383:~/linux$ cat linux1.txt
Hello
Hello 2
```

```
helly@sf-cpu-383:~/linux$ echo "Same line" >> linux1.txt
helly@sf-cpu-383:~/linux$ cat linux1.txt
Hello
Hello 2
Same line
helly@sf-cpu-383:~/linux$ printf "Same line2" >> linux1.txt
helly@sf-cpu-383:~/linux$ cat linux1.txt
Hello
Hello 2
Same line
Same line2helly@sf-cpu-383:~/linux$ _
```

```
Hello
Hello 2
Same line
Same line
New Line added.2
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
```

6. Write a command to find a specific word from a file

cat filename | grep word

```
helly@sf-cpu-383:~/linux$ cat linux1.txt | grep Same
Same line
Same line
helly@sf-cpu-383:~/linux$ _
```

Vim editor - /word

```
Hello
Hello 2
Same line
Same line
New Line added.2
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
/Same_
```

7. Write a command to find the size of a file

ls –lth

```
helly@sf-cpu-383:~$ ls -lth
total 80K
drwxrwsr-x  2 helly installation 4.0K Mar 27 10:11 linux
drwxrwsr-x 34 helly installation 4.0K Mar 27 09:59 OnTime_Logs
```

Here, 4.0K is the size of the directory.

8. Write a command to rename that file

mv filename newname

```
helly@sf-cpu-383:~/linux$ ls
linux1.txt  linux.txt
helly@sf-cpu-383:~/linux$ mv linux1.txt linux_temp.txt
helly@sf-cpu-383:~/linux$ ls
linux_temp.txt  linux.txt
helly@sf-cpu-383:~/linux$ _
```

9. Write a command to make a copy of a file with another name

cp filename newname

```
helly@sf-cpu-383:~/linux$ ls
linux_temp.txt  linux.txt
helly@sf-cpu-383:~/linux$ ls -l
total 8
-rw-rw-r-- 1 helly installation 69 Mar 27 10:21 linux_temp.txt
-rw-rw-r-- 1 helly installation 10 Mar 24 18:39 linux.txt
helly@sf-cpu-383:~/linux$ cp linux_temp.txt copy_linux.txt
helly@sf-cpu-383:~/linux$ ls -l
total 12
-rw-rw-r-- 1 helly installation 69 Mar 27 10:32 copy_linux.txt
-rw-rw-r-- 1 helly installation 69 Mar 27 10:21 linux_temp.txt
-rw-rw-r-- 1 helly installation 10 Mar 24 18:39 linux.txt
helly@sf-cpu-383:~/linux$ _
```

10. write a command to show the list of files in folder

ls –p | grep –v [*/]

```
helly@sf-cpu-383:~$ ls -p | grep -v [*/]
3.txt
bhg
f
File1
helly
hgg
ls
musichardlink
new
test.txt
```

ls -l | grep "^-"

```
helly@sf-cpu-383:~$ ls -l | grep "^-"
-rwxrwxrwx  1 helly installation   23 Mar 24 10:31 3.txt
-rw-rw-r--  1 helly installation    5 Mar 23 18:06 bhg
-rw-rw-r--  1 helly installation    0 Mar 21 12:09 f
-rw-rw-r--  1 helly installation    7 Mar 24 11:45 File1
-rw-rw-r--  1 helly installation   15 Mar 24 11:12 helly
-rw-rw-r--  1 helly installation    0 Mar 23 18:08 hgg
-rw-rw-r--  1 helly installation 1234 Mar 24 10:59 ls
-rw-rw-r--  1 helly installation   22 Mar 23 18:21 new
-rw-rw-r--  1 helly installation    0 Mar 24 16:34 test.txt
```

11. Write a command to move that file to desktop

mv filename destination

```
helly@sf-cpu-383:~/linux$ ls
copy_linux.txt  fol  linux_temp.txt  linux.txt
helly@sf-cpu-383:~/linux$ mv copy_linux.txt ../Desktop
helly@sf-cpu-383:~/linux$ ls
fol  linux_temp.txt  linux.txt
helly@sf-cpu-383:~/linux$ cd ../Desktop
helly@sf-cpu-383:~/Desktop$ ls
 copy_linux.txt  'GIT Pracs'  'Git Practical Exam'   gittest   revert   Test
helly@sf-cpu-383:~/Desktop$ _
```

12. Write a command to change permissions of the file

chmod u=rwx filename (For owner(u), group(g), others(o),all(a))

chmod u-x filename / chmod u+x filename

```
helly@sf-cpu-383:~/linux$ ls -l
total 12
drwxrwsr-x 2 helly installation 4096 Mar 27 10:39 fol
-rw-rw-r-- 1 helly installation   69 Mar 27 10:21 linux_temp.txt
-rw-rw-r-- 1 helly installation   10 Mar 24 18:39 linux.txt
helly@sf-cpu-383:~/linux$ chmod u=rwx linux_temp.txt
helly@sf-cpu-383:~/linux$ ls -l
total 12
drwxrwsr-x 2 helly installation 4096 Mar 27 10:39 fol
-rwxrw-r-- 1 helly installation   69 Mar 27 10:21 linux_temp.txt
-rw-rw-r-- 1 helly installation   10 Mar 24 18:39 linux.txt
helly@sf-cpu-383:~/linux$ _
```

13. Write a command to delete file

rm filename

```
helly@sf-cpu-383:~/linux$ ls -l
total 12
drwxrwsr-x 2 helly installation 4096 Mar 27 10:39 fol
-rwxrw-r-- 1 helly installation   69 Mar 27 10:21 linux_temp.txt
-rw-rw-r-- 1 helly installation   10 Mar 24 18:39 linux.txt
helly@sf-cpu-383:~/linux$ rm linux_temp.txt
helly@sf-cpu-383:~/linux$ ls -l
total 8
drwxrwsr-x 2 helly installation 4096 Mar 27 10:39 fol
-rw-rw-r-- 1 helly installation   10 Mar 24 18:39 linux.txt
helly@sf-cpu-383:~/linux$ _
```

14. Write a command to delete created folder

rmdir foldername / rm –r foldername

```
helly@sf-cpu-383:~/linux$ ls -l
total 8
drwxrwsr-x 2 helly installation 4096 Mar 27 10:39 fol
-rw-rw-r-- 1 helly installation   10 Mar 24 18:39 linux.txt
helly@sf-cpu-383:~/linux$ rmdir fol
helly@sf-cpu-383:~/linux$ ls -l
total 4
-rw-rw-r-- 1 helly installation 10 Mar 24 18:39 linux.txt
helly@sf-cpu-383:~/linux$ _
```

15. Write a command to command to find a any file on local machine

find / -name filename

find / -name filename –type f (for only files, d - directories)

```
helly@sf-cpu-383:~/Documents$ find . -name index.html
./Helly/Source Code/jQuery/CSC/index.html
./Helly/Source Code/jQuery/Traffic/index.html
./Helly/Source Code/Calculator/index.html
./Helly/Source Code/SPA/index.html
./Helly/Source Code/JS/index.html
./Helly/Source Code/Email/index.html
./Helly/Source Code/Diary_Form/Form/index.html
./Helly/Source Code/HTML_All_Tags/HTML_All_Tags/index.html
./Helly/Source Code/CRUD/index.html
./Helly/Source Code/Flipkart/index.html
helly@sf-cpu-383:~/Documents$ _
```

16. Write a command to create a zip of files from specific path on local machine

zip -r zipfilename dirpath_to_zip

```
helly@sf-cpu-383:~$ ls
3.txt    Documents  File1  hgg    Music          OnTime_Logs  snap       test.txt
bhg      Downloads  Form   linux  musichardlink  Pictures     Templates  Videos
Desktop  f          helly  ls     new            Public       test2      模板
helly@sf-cpu-383:~$ zip -r ZipofDocuments ./Documents
        zip warning: name not matched: ./Documents/Helly/Source Code/test2/test-sym.txt
  adding: Documents/ (stored 0%)
  adding: Documents/Helly/ (stored 0%)
  adding: Documents/Helly/Source Code/ (stored 0%)
  adding: Documents/Helly/Source Code/jQuery/ (stored 0%)
  adding: Documents/Helly/Source Code/jQuery/.git/ (stored 0%)
  adding: Documents/Helly/Source Code/jQuery/.git/refs/ (stored 0%)
  adding: Documents/Helly/Source Code/jQuery/.git/refs/tags/ (stored 0%)
  adding: Documents/Helly/Source Code/jQuery/.git/refs/remotes/ (stored 0%)
  adding: Documents/Helly/Source Code/jQuery/.git/refs/remotes/origin/ (stored 0%)
  adding: Documents/Helly/Source Code/jQuery/.git/refs/remotes/origin/csc (stored 0%)
```

```
helly@sf-cpu-383:~$ ls
3.txt      f      linux          OnTime_Logs  test2
bhg        File1  ls             Pictures     test.txt
Desktop    Form   Music          Public       Videos
Documents  helly  musichardlink  snap         ZipofDocuments.zip
Downloads  hgg    new            Templates    模板
```

17. Write a command to unzip

unzip zipfilename

```
helly@sf-cpu-383:~/Downloads$ unzip img.zip
Archive:  img.zip
replace img/calc.png? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
 extracting: img/calc.png
replace img/close_icon.png? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
 extracting: img/close_icon.png
replace img/function_icon.png? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
 extracting: img/function_icon.png
replace img/icon 2.png? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
 extracting: img/icon 2.png
replace img/trigo_icon.png? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
 extracting: img/trigo_icon.png
```

18. Write a command to download file from specific location on the internet

wget url

```
helly@sf-cpu-383:~/Downloads$ wget https://thumbs.dreamstime.com/b/beautiful-rain-forest-ang-ka-nature-trail-doi-inthanon-national-park-thailand-36703721.jpg
--2023-03-27 11:27:49--  https://thumbs.dreamstime.com/b/beautiful-rain-forest-ang-ka-nature-trail-doi-inthanon-national-park-thailand-36703721.jpg
Resolving thumbs.dreamstime.com (thumbs.dreamstime.com)... 192.229.144.114
Connecting to thumbs.dreamstime.com (thumbs.dreamstime.com)|192.229.144.114|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 185325 (181K) [image/jpeg]
Saving to: 'beautiful-rain-forest-ang-ka-nature-trail-doi-inthanon-national-park-thailand-36703721.jpg'

beautiful-rain-fore 100%[===============>] 180.98K  --.-KB/s    in 0.03s

2023-03-27 11:27:49 (5.91 MB/s) - 'beautiful-rain-forest-ang-ka-nature-trail-doi-inthanon-national-park-thailand-36703721.jpg' saved [185325/185325]

helly@sf-cpu-383:~/Downloads$ ls
beautiful-rain-forest-ang-ka-nature-trail-doi-inthanon-national-park-thailand-36703721.jpg  Form.png   '(Intermediate + Answers)  - Cambridge English Grammar In Use (1).rtf'
bootstrap-3.3.7                                                                              icon.png   passbolt-recovery-kit.txt
file                                                                                         img        shopping-cart.png
font-awesome-4.7.0                                                                           img.zip    'The Linux Command Line.pdf'
helly@sf-cpu-383:~/Downloads$ _
```

19. Write command to see last 10 lines of a file.

tail filename

```
helly@sf-cpu-383:~/linux$ tail linux.txt
LIne 8
LIne 9
LIne 10
LIne 11
LIne 12
LIne 13
LIne 14
LIne 15
LIne 16
LIne 17
```

20. Write command to see history of a file.

stat filename

```
helly@sf-cpu-383:~/linux$ stat linux.txt
  File: linux.txt
  Size: 137          Blocks: 8          IO Block: 4096    regular file
Device: fd01h/64769d    Inode: 1330796    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1002/   helly)   Gid: ( 1002/installation)
Access: 2023-03-27 11:31:15.821943781 +0530
Modify: 2023-03-27 11:31:09.781972663 +0530
Change: 2023-03-27 11:31:09.781972663 +0530
 Birth: 2023-03-24 18:39:32.567077233 +0530
helly@sf-cpu-383:~/linux$ _
```