## ASSIGNMENT 03 CONCEPTS OF OPERATING SYSTEMS

# <u>HARSH DIXIT</u>

# KD1-86691-HARSH

Q1

```
osboxes@osboxes:~/dir1$ cat > .hiddenfile.txt
This is my hidden file...
osboxes@osboxes:~/dir1$ ls -a
. . . file10.htm file1.htm .hiddenfile.txt
```

Q2

```
osboxes@osboxes:~/dir1$ ls
file10.txt file1.txt
osboxes@osboxes:~/dir1$ rename "s/.txt/.htm/" *.txt
osboxes@osboxes:~/dir1$ ls
file10.htm file1.htm
```

Q3

Q4

Q5

```
osboxes@osboxes:~/dir1$ ls -l textfile.txt
-rwxrwxrwx 2 osboxes osboxes 71 Oct 10 13:47 textfile.txt
osboxes@osboxes:~/dir1$ touch -t 202410111511 textfile.txt
osboxes@osboxes:~/dir1$ ls -l textfile.txt
-rwxrwxrwx 2 osboxes osboxes 71 Oct 11 2024 textfile.txt
osboxes@osboxes:~/dir1$ ls -l
total 4
-rw-rw-r-- 1 osboxes osboxes 0 Oct 8 10:03 file10.htm
-rw-rw-r-- 1 osboxes osboxes 0 Oct 8 10:03 file1.htm
-rwxrwxrwx 2 osboxes osboxes 71 Oct 11 2024 textfile.txt
```

```
osboxes@osboxes:~/dir1$ cat textfile.txt
line 1
line 2
line 3
line 4
line 5
line 6
line 7
line 8
line 9
line 10
osboxes@osboxes:~/dir1$ tail -6 textfile.txt
line 5
line 6
line 7
line 8
line 9
line 10
```

## Q12 13 14 15 16

#### grep

```
osboxes@osboxes:-$ touch data.txt
osboxes@osboxes:-$ cat > data.txt
Linux is open source.
In Linux everthing is file
files have permissions.
files have inode no.
files have size.
there are several types of files
osboxes@osboxes:-$ wc data.txt
6 25 144 data.txt
osboxes@osboxes:-$ grep "files" data.txt
files have permissions.
files have inode no.
files have size.
there are several types of files
osboxes@osboxes:-$ grep -n "files" data.txt
sifiles have inode no.
5:files have inode no.
5:files have size.
6:there are several types of files
osboxes@osboxes:-$ grep -v "files" data.txt
Linux is open source.
In Linux everthing is file
osboxes@osboxes:-$ grep "have" data.txt
files have permissions.
files have inode no.
files have inode no.
files have inode no.
files have size.
```

#### egrep

```
osboxes@osboxes:~$ cat taste.txt
This
biscuit
isn't goof
but that
cake is
really tasty.
osboxes@osboxes:~$ cat > repeat.txt
dac
daac
daaac
daaac
daaaac
daaaac
daaaaac
osboxes@osboxes:~$ egrep "d[aa]c" repeat.txt
dac
osboxes@osboxes:~$ egrep "d(aa)c" repeat.txt
dac
```

## fgrep

```
osboxes@osboxes:~$ cat ex.txt
hello i am learning shell script
osboxes@osboxes:~$ fgrep -c "shell" ex.txt
1
```

```
osboxes@osboxes:~$ cat > test.txt
This is test file.
osboxes@osboxes:~$ ls -l t
taste.txt test.txt
osboxes@osboxes:~$ ls -l test.txt
-rw-rw-r-- 1 osboxes osboxes 19 Oct 10 14:15 test.txt
```

```
osboxes@osboxes:~$ chmod -w t
taste.txt test.txt
osboxes@osboxes:~$ chmod -w test.txt
osboxes@osboxes:~$ ls -l test.txt
-r--r--- 1 osboxes osboxes 19 Oct 10 14:15 test.txt
```

```
osboxes@osboxes:~$ touch file.txt
osboxes@osboxes:~$ ls -l file.txt
-rw-rw-r-- 1 osboxes osboxes 0 Oct 10 14:21 file.txt
osboxes@osboxes:~$ chmod +x file.txt
osboxes@osboxes:~$ ls -l file.txt
-rwxrwxr-x 1 osboxes osboxes 0 Oct 10 14:21 file.txt
```

#### Or

```
osboxes@osboxes:~/dir1$ ls -l textfile.txt
-rw-rw-r-- 2 osboxes osboxes 71 Oct 10 13:47 textfile.txt
osboxes@osboxes:~/dir1$ chmod 777 textfile.txt
osboxes@osboxes:~/dir1$ ls -l textfile.txt
-rwxrwxrwx 2 osboxes osboxes 71 Oct 10 13:47 textfile.txt
```

#### **Q20**

```
osboxes@osboxes:~/dir1$ cat > text1.txt
Hello world
osboxes@osboxes:~/dir1$ wc text1.txt
1  2 12 text1.txt
osboxes@osboxes:~/dir1$ wc text1.txt
1  2 12 text1.txt
osboxes@osboxes:~/dir1$ wc < text1.txt > text2.txt
osboxes@osboxes:~/dir1$ cat text2.txt
1  2 12
```

# **Q21**

```
osboxes@osboxes:~/dir1$ cat textfile.txt
line 1
line 2
line 3
line 4
line 5
line 6
line 7
line 8
line 9
line 10
osboxes@osboxes:~/dir1$ head -10 textfile.txt | tail -6
line 5
line 6
line 7
line 8
line 9
line 10
```

```
osboxes@osboxes:~/dir1$ cat temp.txt
32
23
45
33
11
22
24
osboxes@osboxes:~/dir1$ sort temp.txt | uniq
11
22
23
24
32
33
45
```

# **Q24**

```
osboxes@osboxes:~/dir1$ who | grep -v '^d' | sort -k 5n osboxes seat0 2024-10-11 05:21 (login screen) osboxes tty2 2024-10-11 05:21 (tty2)
```

# **Q25**

```
osboxes@osboxes:~/dir1$ ls -ls |grep -v '^d' | sort -k 5n 0 -rw-rw-r-- 1 osboxes osboxes 0 Oct 8 10:03 file10.htm 0 -rw-rw-r-- 1 osboxes osboxes 0 Oct 8 10:03 file1.htm 4 -rw-rw-r-- 1 osboxes osboxes 12 Oct 11 05:58 text1.txt 4 -rw-rw-r-- 1 osboxes osboxes 21 Oct 11 06:06 temp.txt 4 -rw-rw-r-- 1 osboxes osboxes 9 Oct 11 06:00 text2.txt 4 -rwxrwxrwx 2 osboxes osboxes 71 Oct 11 2024 textfile.txt total 16
```

```
osboxes@osboxes:-/dir1$ ls
file10.htm file1.htm temp.txt text1.txt text2.txt textfile.txt
osboxes@osboxes:-/dir1$ echo "Files: $(ls -l | grep '^-' | wc -l) Directories: $(ls -l | grep '^d' | wc -l)"
Files: 6 Directories: 0
```

# **Q27**

```
osboxes@osboxes:-/dir1$ cat > .hiddenfile.txt
This is hidden file present in dir1 directory.
osboxes@osboxes:-/dir1$ ls -a
. . . file10.htm file1.htm .hiddenfile.txt temp.txt text1.txt text2.txt textfile.txt
osboxes@osboxes:-/dir1$ ls .?* | grep -v '^d'
.hiddenfile.txt
```

# **Q28**

```
osboxes@osboxes:~/dir1$ cat > t1.txt
lowercase harsh dixit
osboxes@osboxes:~/dir1$ tr '[:lower:]' '[:upper:]' <t1.txt> output.txt
osboxes@osboxes:~/dir1$ cat output.txt
LOWERCASE HARSH DIXIT
```

## **Q29**

```
osboxes@osboxes:~$ echo "Lionel Messi Lamine Yamal David Bechkam" | cut -d " " -f1 Lionel osboxes@osboxes:~$ echo "Lionel Messi Lamine Yamal David Bechkam" | cut -d " " -f2,3 Messi Lamine osboxes@osboxes:~$ echo "Lionel Messi Lamine Yamal David Bechkam" | cut -d " " -f2-5 Messi Lamine Yamal David
```

------HARSH DIXIT------