Problem Sheet-1 Sub:- Linux Fundamentals

Ques 1. Create a directory structure D1/D2/D3/D4 under the current directory.

```
(kali@kali)-[~/linux]

$ mkdir -p D1/D2/D3/D5/
```

Ques 2. Copy file1 to file2 without any warning.

Ques 3. Display name of files that begins with (.).

Ques 4. Write command to display first seven line of the file.

Ques 5. Is command with all option available with it.

```
(kali@kali)-[~]
$ ls -l

total 32
drwxr-xr-x 4 kali kali 4096 Nov 26 02:48 Desktop
drwxr-xr-x 2 kali kali 4096 Nov 25 08:37 Documents
drwxr-xr-x 2 kali kali 4096 Nov 26 02:24 Downloads
drwxr-xr-x 2 kali kali 4096 Nov 25 08:37 Music
drwxr-xr-x 2 kali kali 4096 Nov 25 08:37 Pictures
drwxr-xr-x 2 kali kali 4096 Nov 25 08:37 Public
drwxr-xr-x 2 kali kali 4096 Nov 25 08:37 Templates
drwxr-xr-x 2 kali kali 4096 Nov 25 08:37 Videos
```

Ques 6. Move file that begin with x from current directory to the /user/bca01 directory.

Ques 7. Remove directory tree dir1/dir2/dir3 using single command.

```
___(kali⊕ kali)-[~/linux]

_$ rmdir -p D1/D2/D3/D5/
```

Ques 8. Remove all files of the current directory whose name start with (!).

```
___(kali⊛ kali)-[~/Desktop/New Folder]

$\text{rm !}
```

Ques 9. Rename file1 to file2.

```
(kali@ kali)-[~/Desktop/New Folder]
s mv chetan chetan.txt
```

Ques 10. Rename f1 to f2 and move it directory dir1 of the current directory.

Ques 11. Switch to directory 2-level up.

```
___(kali@ kali)-[~]
_$ cd ../../
```

Ques 12. Store the sorted output of file1.txt into file2.txt.

```
(kali@ kali)-[~/linux]
state cat chetan.txt > new.txt
```

Ques 13. Store the number of lines, words of file (bca)to output file.(i.e from bca file no. of lines and words stored in the file name(output)).

```
(kali% kali)-[~/linux]
$ wc file01.txt > output

(kali% kali)-[~/linux]
$ cat output
4 14 146 file01.txt
```

Ques 14. Create a directory named TYBCA having initial permission to owner, group and other is read and execute.

```
(kali@kali)-[~/linux/user]
$ chmod +777 TYBCA

(kali@kali)-[~/linux/user]
$ ls -l
total 8
drwxr-xr-x 2 kali kali 4096 Nov 15 08:45 cs_26
drwxrwxrwx 2 kali kali 4096 Nov 15 09:54 TYBCA
```

Ques 15 . Copy only those files to directory d1 which begin with character 'a'.

Ques 16. Remove all files of current directory whose first character must be asterisk (*).

```
(kali@ kali)-[~/Desktop/linux/dir1]
$ ls
'*chetan.txt' '*ch.txt' f2.txt

(kali@ kali)-[~/Desktop/linux/dir1]
$ rm [*]*.txt

(kali@ kali)-[~/Desktop/linux/dir1]
$ ls
f2.txt
```

Ques 17. Copy files of the current directory to d1 in which file name contains digits anywhere in the filename.

```
(kali@ kali)-[~/Desktop/linux]
$ ls
chetan26.txt d3vil.txt devil.txt dir1

(kali@ kali)-[~/Desktop/linux]
$ cp [^0-9]*.txt dir1

(kali@ kali)-[~/Desktop/linux]
$ cd dir1 & ls
chetan26.txt d3vil.txt devil.txt
```

Ques 18. Create a directory with permission read and write for owner, write and execute for group and read and execute for other user.

```
(kali@kali)-[~/linux/user]
$ chmod +777 TYBCA

(kali@kali)-[~/linux/user]
$ ls -l
total 8
drwxr-xr-x 2 kali kali 4096 Nov 15 08:45 cs_26
drwxrwxrwx 2 kali kali 4096 Nov 15 09:54 TYBCA
```

Ques 19. Display Julian calendar for month 9 of 2020.

Ques 20. Redirect output of echo command in text1 file.

```
(kali@ kali)-[~/linux]
$ echo "hello devil" > chetan.txt

(kali@ kali)-[~/linux]
$ cat chetan.txt
hello devil
```

Ques 21. Calculate total words of text1 file.

```
(kali@kali)-[~/linux]
$ wc -c file3.txt
78 file3.txt
```

Ques 22. Display current date and time.

Ques 23. Remove all the space between string.

```
(kali@ kali)-[~/Desktop/linux]
$ cat chetan26.txt
linux is
based on unix os

unix is command based but
linux also support cli mode.

(kali@ kali)-[~/Desktop/linux]
$ grep -e "\s" chetan26.txt
linux is
based on unix os
unix is command based but
linux also support cli mode.
```

Ques 24. Change name of file text1 to file1. And copy file1 in D1 directory.

```
(kali@ kali)-[~/Desktop/linux]
s mv devil.txt dir1/file1.txt
```

Ques 25. Display last 2 lines of text1 file.

```
(kali@kali)-[~/linux]
$ tail -n 2 file3.txt
this is line 4
this is last line
```