1. **Display the date using ‘date’ command.**

```
hrisha_regex@Hrisha:~$ date
Tue Jul 23 17:30:10 IST 2024
hrisha_regex@Hrisha:~$
```

2. **Check who are the users logged in using the ‘who’ command.**

```
hrisha_regex@Hrisha:~$ who
hrisha_regex pts/1        2024-07-23 17:30
hrisha_regex@Hrisha:~$
```

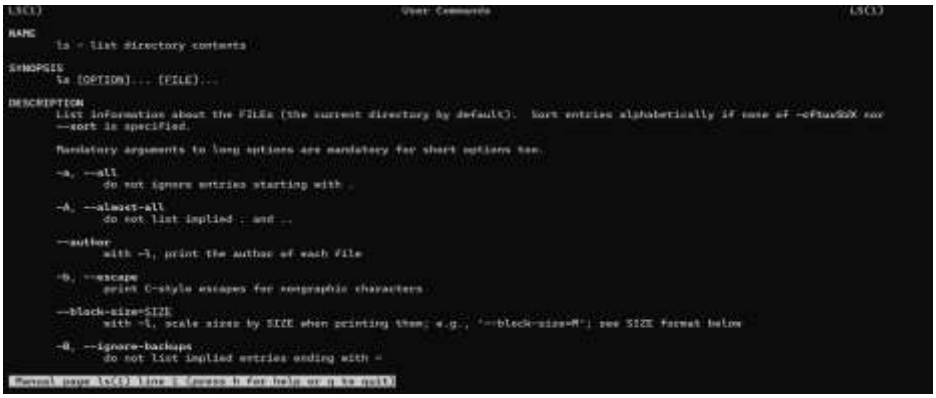
3. **Check the running processes using the ‘ps’ command.**

```
hrisha_regex@Hrisha:~$ ps
    PID TTY          TIME CMD
    558 pts/0    00:00:00 bash
    791 pts/0    00:00:00 ps
hrisha_regex@Hrisha:~$
```

4. **List the files with ‘ls’ command with and without –l option.**

```
hrisha_regex@Hrisha:~$ ls
q
hrisha_regex@Hrisha:~$ ls -l
total 12
-rw-r--r-- 1 hrisha_regex hrisha_regex 9785 Jul 22 11:42 q
hrisha_regex@Hrisha:~$
```

5. **Check the manual of ‘ls’ command.**



6. **Show the command used to display (i) filenames (ii) processes (iii) users.**

```
hrisha_regex@Hrisha:~$ ls
q
hrisha_regex@Hrisha:~$ ls -l
total 12
-rw-r--r-- 1 hrisha_regex hrisha_regex 9785 Jul 22 11:42 q
hrisha_regex@Hrisha:~$ ps
    PID TTY          TIME CMD
    558 pts/0    00:00:00 bash
    818 pts/0    00:00:00 ps
hrisha_regex@Hrisha:~$ who
hrisha_regex pts/1        2024-07-23 17:30
hrisha_regex@Hrisha:~$
```

7. **Check and state the difference between man and whats command by checking man cp & whatis cp**

```
hrisha_regex@Hrisha:~$ man cp
hrisha_regex@Hrisha:~$
hrisha_regex@Hrisha:~$ whatis cp
cp (1)                - copy files and directories
```

8. **What is primary difference between printf and echo command. Check and print**

```
hrisha_regex@Hrisha:~$ printf hello
hellohrisha_regex@Hrisha:~$ echo hello
hello
hrisha_regex@Hrisha:~$
```

9. **In the home directory, create a directory MCA2022 inside the MCA2022, create another directory and get into the directory [-/MCA2022/Ankur_A_00$].**

```
hrisha_regex@Hrisha:~$ mkdir MCA2022
hrisha_regex@Hrisha:~$ cd MCA2022
hrisha_regex@Hrisha:~/MCA2022$ mkdir Hrisha_B_55
hrisha_regex@Hrisha:~/MCA2022$ cd Hrisha_B_55
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55$ pwd
/home/hrisha_regex/MCA2022/Hrisha_B_55
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55$
```

10. Go to the subdirectory and create another subdirectory 'Unix_File_System' within it.

```
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55$ mkdir Unix_File_System
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55$ cd Unix_File_System
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$ pwd
/home/hrisha_regex/MCA2022/Hrisha_B_55/Unix_File_System
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$
```

11. Create the subdirectories TestA,TestB,TestC and corresponding sub-directories TestA-1,TestA-2, TestB-1,TestB-2, TestC-1,TestB-2-i in a single command.

```
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$ mkdi
r -p TestA/TestA-1 TestA/TestA-2 TestB/TestB-1 TestB/TestB-2 Tes
tB/TestB-3 TestC/TestC-1 TestB-2-i
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$ tree

Command 'tree' not found, but can be installed with:

sudo snap install tree  # version 1.8.0+pkg-3fd6, or
sudo apt  install tree  # version 1.8.0-1

See 'snap info tree' for additional versions.

hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$ find
.
./TestB-2-i
./TestC
./TestC/TestC-1
./TestB
./TestB/TestB-2
./TestB/TestB-1
./TestB/TestB-3
./TestA
./TestA/TestA-1
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$
```

12. Show the absolute path of TestB-2-i.

```
hrisha_regex@Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$ realpath TestB/TestB-2-i/home/Hrisha/MCA2022/Hrisha_B_55/Unix_File_S
ystem/-TestB/Test-2-i
```