Name: Hrisha Gossain Enrollment Number: 12023006015068

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.

```
ANCE

13 = 11st Sirectory contents

SHOPSIS

14 [OSISM] ... (FILE) ...

MEMORISHING

List information about the Filia (the surrent directory by default). Nort entries alphabetically if one of -oftwody con-
-root is specified.

Finishing agreements to long epitions are manufacey for short options have.

-a. -all

-b. -almost-all

do not list implied : and ...

-author

alth -i, print the author of each file

-b. -accase

print C-skyle enables for sumprophic characters

-black-size-III

with -i, scale sizes by EIII show printing them; e.g., '--black-size-M'; see SIZI forest below

-d. -ignore-backups

do not list implied entries ensing eith -

Examble con- accase

do not list implied entries ensing eith -
```

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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@Hrisha:=$ who
hrisha_regex@Hrisha:=$
```

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

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$
```

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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_regex8Hrisha:~/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-2-1
hrisha_regex8Hrisha:~/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_regex8Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$ find
,/TestB-2-1
./TestC
./TestC/TestC-1
./TestB
./TestB/TestB-2
./TestB/TestB-3
./TestB/TestB-1
./TestB/TestB-1
hrisha_regex8Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$
hrisha_regex8Hrisha:~/MCA2022/Hrisha_B_55/Unix_File_System$
hrisha_regex8Hrisha:~/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_System\$ ystem/-TestB/TestB-2-i/home/Hrisha/MCA2022/Hrisha_B_55/Unix_File_System\$