

Assignment 1

1. Display the date using the “date” command.

Input : bhubonmondal@Bhubons-Mac-mini ~ % date

Output :

```
bhubonmondal@Bhubons-Mac-mini ~ % date
Mon Aug  4 13:46:35 IST 2025
```

2. Check who are the users logged in using the “who” command.

Input : bhubonmondal@Bhubons-Mac-mini ~ % who

Output :

```
bhubonmondal@Bhubons-Mac-mini lc % who
bhubonmondal      console      4 Aug 13:41
bhubonmondal      ttys000     4 Aug 13:46
```

3. Check the running processes using the “ps” command.

Input : bhubonmondal@Bhubons-Mac-mini ~ % ps

Output :

```
bhubonmondal@Bhubons-Mac-mini ~ % ps
PID TTY      TIME CMD
907 ttys000   0:00.02 -zsh
```

4. List the files with “ls” command with and without -l option.

Input : bhubonmondal@Bhubons-Mac-mini lc % ls

Output :

```
bhubonmondal@Bhubons-Mac-mini lc % ls
abc.txt          evenOdd.sh
```

Input : bhubonmondal@Bhubons-Mac-mini lc % ls -l

Output :

```
bhubonmondal@Bhubons-Mac-mini lc % ls -l
total 0
-rw-r--r--  1 bhubonmondal  staff   29 16 Jul 12:43 abc.txt
```

5. Check the manual of ls command.

Input : bhubonmondal@Bhubons-Mac-mini lc % man ls

Output :

```
LS(1)                                General Commands Manual

NAME
    ls - list directory contents

SYNOPSIS
    ls [-@ABCFGHILOPRSTUWabcdefghiklmnopqrstuvwxy1%,] [--color=when]
    [-D format] [file ...]
```

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

Input : bhubonmondal@Bhubons-Mac-mini lc % ls -l; ps; who

Output :

```
bhubonmondal@Bhubons-Mac-mini lc % ls -l
total 0
-rw-r--r--  1 bhubonmondal  staff   0  4 Aug 14:17 abc.txt
bhubonmondal@Bhubons-Mac-mini lc % ps
PID TTY      TIME CMD
907 ttys000   0:00.06 -zsh
bhubonmondal@Bhubons-Mac-mini lc % who
bhubonmondal      console      4 Aug 13:41
bhubonmondal      ttys000     4 Aug 13:46
```

7. Check and state the difference between man and what is command by checking man cp & what is cp.

Input : bhubonmondal@Bhubons-Mac-mini lc % man cp; whatis cp

```
CP(1)                                General Commands Manual                                CP(1)

NAME
    cp - copy files

SYNOPSIS
    cp [-R [-H | -L | -P]] [-f | -i | -n] [-aclNpSsvXx]
       source_file target_file
    cp [-R [-H | -L | -P]] [-f | -i | -n] [-aclNpSsvXx]
       source_file ... target_directory
    cp [-f | -i | -n] [-aclNppSsvXx] source_file target_file
    cp [-f | -i | -n] [-aclNppSsvXx] source_file ... target_directory
```

Output :

```
bhubonmondal@Bhubons-Mac-mini lc % man cp; whatis cp
cp(1)                                - copy files
cp(1)                                - copy files
```

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

Input : bhubonmondal@Bhubons-Mac-mini lc % echo Hello\tWorld; printf "Hello\tWorld\n"

```
bhubonmondal@Bhubons-Mac-mini lc % echo Hello\tWorld; printf "Hello\tWorld\n"
HellotWorld
Hello   World
```

Output :

9. In the home directory, create a directory BCA2022. Inside the BCA2022, create another directory <FistName_Section_ClassRoll> and get into the directory [~/MCA2024/Ankur_A_00\$].

Input : bhubonmondal@Bhubons-Mac-mini ~ % mkdir mca2024; cd mca2024; mkdir Bhubon_B_15; cd Bhubon_B_15

```
bhubonmondal@Bhubons-Mac-mini ~ % mkdir mca2024; cd mca2024; mkdir Bhubon_B_15;
cd Bhubon_B_15
bhubonmondal@Bhubons-Mac-mini Bhubon_B_15 %
```

Output :

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

Input : bhubonmondal@Bhubons-Mac-mini Bhubon_B_15 % mkdir Unix_File_System

```
bhubonmondal@Bhubons-Mac-mini Bhubon_B_15 % mkdir Unix_File_System
bhubonmondal@Bhubons-Mac-mini Bhubon_B_15 %
```

Output :

11. Create the subdirectories TestA, TestB, TestC and corresponding sub-subdirectories TestA-1, TestA-2, TestB-1, TestB-2, TestB-3, TestC-1, TestB-2-i in a single command.

Input : bhubonmondal@Bhubons-Mac-mini Bhubon_B_15 % mkdir TestA ; cd TestA ; mkdir TestA-1 ; mkdir TestA-2 ; cd .. ; mkdir TestB ; cd TestB ; mkdir TestB-1 ; mkdir TestB-2 ; mkdir TestB-3 ; cd TestB-2 ; mkdir TestB-2-i ; cd ../../ ; mkdir TestC ; cd TestC ; mkdir TestC-1 ; cd ..

```
bhubonmondal@Bhubons-Mac-mini Bhubon_B_15 % mkdir TestA ; cd TestA ; mkdir TestA-1 ; mkdir T
estA-2 ; cd .. ; mkdir TestB ; cd TestB ; mkdir TestB-1 ; mkdir TestB-2 ; mkdir TestB-3 ; cd
TestB-2 ; mkdir TestB-2-i ; cd ../../ ; mkdir TestC ; cd TestC ; mkdir TestC-1 ; cd ..
```

Output :

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

Input : realpath TestB/TestB-2/TestB-2-i

```
bhubonmondal@Bhubons-Mac-mini Bhubon_B_15 % realpath TestB/TestB-2/TestB-2-i
```

Output :

```
/Users/bhubonmondal/mca2024/Bhubon_B_15/TestB/TestB-2/TestB-2-i
```