

# ASSIGNMENT-1

## 423132

1. Create a directory.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~$ cd Desktop
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls -r
Spiral_MATrix_001.c  Odd_Fibonacci_002.c  OddFibonacci
Spiral_MATrix_001  Odd_Fibonacci_002  hadoop-2.10.2.tar.gz
sampledir  Odd_Fibonacci_001.c  hadoop-2.10.2
OddFibonacci.c  Odd_Fibonacci_001  423166
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ mkdir mydir
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls -r
Spiral_MATrix_001.c  Odd_Fibonacci_002.c  OddFibonacci  423166
Spiral_MATrix_001  Odd_Fibonacci_002  mydir
sampledir  Odd_Fibonacci_001.c  hadoop-2.10.2.tar.gz
OddFibonacci.c  Odd_Fibonacci_001  hadoop-2.10.2
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

2. Create a subdirectory in the directory created.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~$ cd Desktop
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cd mydir
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ mkdir articles
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ mkdir images
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ mkdir sample
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ ls
articles  images  sample
```

3. Change your current directory to the subdirectory.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~$ cd Desktop
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cd mydir
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ ls
articles  images  sample
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ cd articles
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/articles$ ls
```

4. Display the calendar for the current month.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~$ cal
      January 2025
Su Mo Tu We Th Fr Sa
                1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31
```

5. Get a directory listing of the parent directory.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~$ cd Desktop
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls mydir
articles  images  sample
```

# ASSIGNMENT-1

423132

6.How many users were logged onto your system?

```
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ who
hadoop    :0                2025-01-03 14:38 (:0)
```

7.Display your name in the form of a banner.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~$ banner Nitya
#
##  #      #      #####  #  #      ##
# #  #      #      #      # #      # #
# #  #      #      #      #      #
# #  #      #      #      #      #####
#   ##      #      #      #      #
#   #      #      #      #      #

hadoop@ai-HP-ProDesk-600-G4-MT:~$ banner NITYA
#   #      ###  #####  #      #      #
##  #      #      #      #      # #
# #  #      #      #      # #      #
# #  #      #      #      #      #
#   #      #      #      #      #####
#   ##      #      #      #      #
#   #      ###  #      #      #      #
```

8.Display the name of device name of your terminal.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ hostnamectl
Static hostname: ai-HP-ProDesk-600-G4-MT
Icon name: computer-desktop
Chassis: desktop
Machine ID: 312dc7c9e6fe4c1cb5da0f7a3521f423
Boot ID: f373be85723f48cdb1ed8d70d9f41480
Operating System: Ubuntu 20.04.6 LTS
Kernel: Linux 5.15.0-126-generic
Architecture: x86-64
```

9.Move  
root

to the

directory.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cd mydir
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ ls
articles  images  sample
```

10.Change your directory to the directory exercises.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ cd ex3ercise
bash: cd: ex3ercise: No such file or directory
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ mkdir exercises
```

# ASSIGNMENT-1

423132

11. Create a file called `example1` using the `cat` command containing the following text:  
water, water everywhere  
and all the boards did shrink;  
water, water everywhere,  
No drop to drink.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat > example1
water,water everywhere
and all the boards did shrink
water,water everywhere
No drop to drink
^C
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cat example1
water,water everywhere
and all the boards did shrink
water,water everywhere
No drop to drink
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop$
```

12. Use the `man` command to obtain further information on the `finger` command.

```
FINGER(1) BSD General Commands Manual FINGER(1)

NAME
    finger - user information lookup program

SYNOPSIS
    finger [-lmsp] [user ...] [user@host ...]

DESCRIPTION
    The finger displays information about the system users.

    Options are:

    -s    Finger displays the user's login name, real name, terminal name and
           write status (as a '*' after the terminal name if write permission
           is denied), idle time, login time, office location and office
           phone number.

           Login time is displayed as month, day, hours and minutes, unless
           more than six months ago, in which case the year is displayed
           rather than the hours and minutes.

           Unknown devices as well as nonexistent idle and login times are
           displayed as single asterisks.

    -l    Produces a multi-line format displaying all of the information de-
           scribed for the -s option as well as the user's home directory,
           home phone number, login shell, mail status, and the contents of
           the files ".plan", ".project", ".ppgkey" and ".forward" from the
           user's home directory.

           Phone numbers specified as eleven digits are printed as '+N-NNN-
           NNN-NNNN'. Numbers specified as ten or seven digits are printed
           as the appropriate subset of that string. Numbers specified as
           five digits are printed as '+N-NNNN'. Numbers specified as four
           digits are printed as '+XNNNN'.

           If write permission is denied to the device, the phrase '(messages
           off)' is appended to the line containing the device name. One en-
           try per user is displayed with the -l option; if a user is logged
           on multiple times, terminal information is repeated once per login.
```

13. List all the processes that are presently running.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~$ top

top - 15:34:34 up 4 days, 58 min, 1 user, load average: 0.34, 0.65, 0.62
Tasks: 309 total, 2 running, 307 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.8 us, 1.0 sy, 0.0 ni, 96.9 id, 0.0 wa, 0.0 hi, 0.3 si, 0.0 st
MiB Mem : 15768.9 total, 7149.0 free, 2991.0 used, 5628.8 buff/cache
MiB Swap: 2048.0 total, 2048.0 free, 0.0 used, 12413.4 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR   S  %CPU  %MEM    TIME+  COMMAND
 2061 hadoop    20   0 6531004 359376 123572 R   18.9   2.2   17:14.87 gnome-s+
 1775 hadoop    20   0 1631012 119228 67464 S    6.3   0.7    7:58.52 Xorg
   877 avahi     20   0  12940   8476  3456 S    5.0   0.1   132:58.43 avahi-d+
   606 root      -51   0     0     0     0 S    2.7   0.0    41:49.91 irq/131+
  1560 mssql     20   0   16.8g   1.0g  58552 S    2.0   6.6   129:13.23 sqlservr
  98088 hadoop    20   0   32.7g  259752 210456 S    2.0   1.6    0:22.15 chrome
  1092 mysql     20   0 2134440 384160 35408 S    0.7   2.4    22:39.77 mysqld
  93185 hadoop    20   0  11988   3988   3224 R    0.7   0.0    0:00.13 top
    14 root      20   0     0     0     0 I    0.3   0.0    6:57.73 rcu_sch+
  2424 hadoop    39  19 590948 34516 16620 S    0.3   0.2    0:31.70 tracker+
```

# ASSIGNMENT-1

423132

14. List the text files in your current directory.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$ touch myfile.txt
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$ ls *.txt exercises
ls: cannot access 'exercises': No such file or directory
myfile.txt
```

15. Make a copy of any text file.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$ cp myfile.txt mycopy.txt
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$
```

16. Rename one of your text files in the current directory.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ cd exercises
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$ mv mycopy.txt myfile2.txt
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$ ls
example1 myfile2.txt myfile.txt
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$
```

17. Delete an unneeded copy of a file.

```
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir$ cd exercises
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$ rm myfile2.txt
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$ ls
example1 myfile.txt
hadoop@ai-HP-ProDesk-600-G4-MT:~/Desktop/mydir/exercises$
```

18. Send a message to another user on your UNIX system, and get them to reply.

```
who
```

```
write john pts/2
Hello, are you there?
```

19. Create a small text file and send it to another user

```
echo "Hello, this is a message for you!" > message.txt
```

```
who
```

```
write john pts/2
Hello, are you there?
```

423132

20.

Create 5 empty files **empty1**, **empty2**, **empty3**, **empty4** and **empty5**.  
Create a file called **text** and store your name, age, sex and address in it.  
Display the contents of the file **text** on the screen.  
Make a copy of the file **text** into another file **newtext**.  
Create a file **matter** and type any two sentences in it.

[illegible]

21.

Combine the contents of the file **text** and **matter** into another file **txtmat**.  
Delete the file **text**.  
Create one more link called **tmpfile** for the file **matter**.  
Change the permissions for the file **newtext** to 666.  
Rename the file **newtext** to **oldtext**.  
Create a directory **mydir** in the current directory.  
Move the files **oldtext** and **matter** to the directory **mydir**.  
Create another directory **newdir** within the directory **mydir**.  
Copy the contents of **mydir** directory to the **newdir** directory.  
Delete interactively all empty files created earlier.  
Setup sticky bit for the directory **newdir**.  
Delete the directories **mydir** and **newdir** at one shot.

# ASSIGNMENT-1

423132