Assignment - 1 OPERATING SYSTEM

TOPIC: BASIC UNIX COMMANDS & FILE SYSTEM COMMANDS

Sourav Paul, Roll -43

1. Display the date using the "date" command.

```
Dell@DESKTOP-JFU402L:~
```

Dell@DESKTOP-JFU402L:~\$ date Sun Nov 5 19:19:12 PST 2023

Dell@DESKTOP-JFU402L:~\$

2. Check who are the users logged in using the "who" command.

Dell@DESKTOP-JFU402L: ~

Dell@DESKTOP-JFU402L:~\$ who

Dell pts/1

2023-11-05 19:17

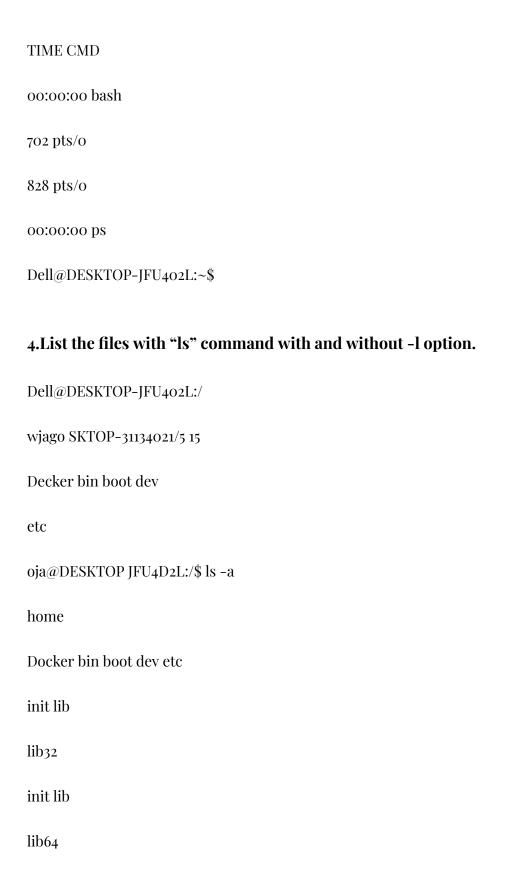
Dell@DESKTOP-JFU402L:~\$

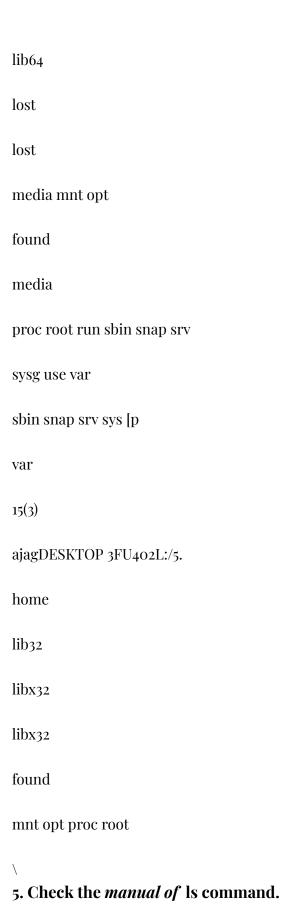
3. Check the running processes using the "ps" command.

Dell@DESKTOP-JFU402L: ~

Dell@DESKTOP-JFU402L:~\$ ps

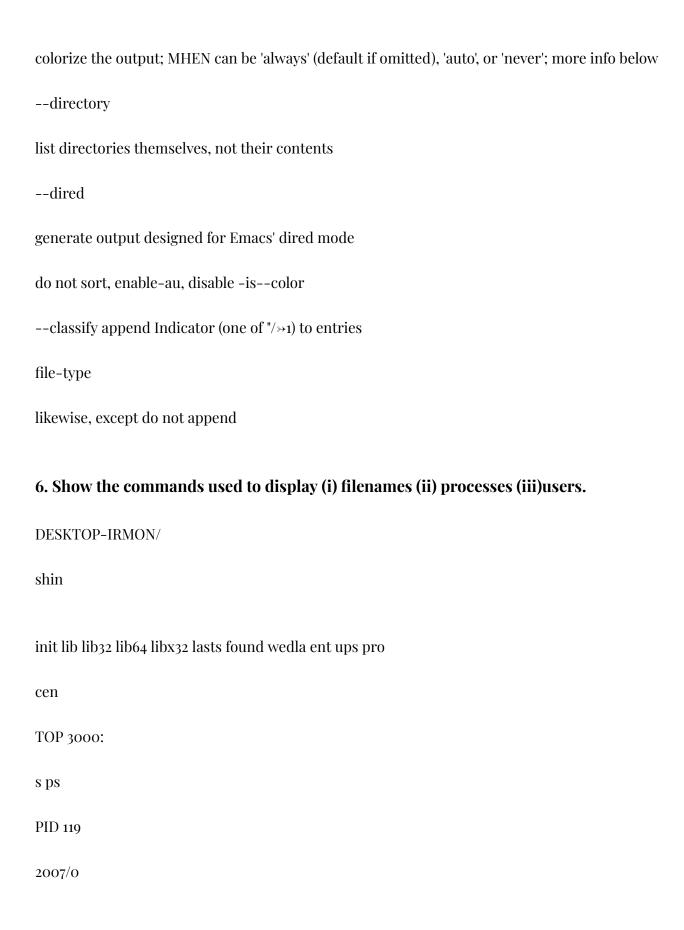
PID TTY





@DESKTOP MOL/ 15- list directory contents **User Conrands SYNOPSIS DESCRIPTION** list information about the FILES (the current directory by default). Sort entries alphabetically if none of cftuvSIX nor sort is specified. Mandatory arguments to long options are mandatory for short options too. all do not ignore entries starting with. --almost-all do not list implied. and.. -author with -1, print the author of each file --escape print C-style escapes for nongraphic characters -block-size-51ZE with -1, scale sizes by SIZE when printing them; e.., .block-size-H'; see SIZE format below --ignore-backups do not list implied entries ending with with -1t: sort by, and show, ctime (time of last modification of file status information); with -1: show ctime and sort by name; otherwise: sort by ctime, newest first list entries by columns

--color[-MIEN]



00:00:00 bu

945 pts/o

oo:oo:oo ps

ESKTOP-FUROR:/\$ cat /etc/passand

o:o:root:/root:/bin/bash

x:1:1:daemon:/usr/sbin:/usr/sbin/nologin

Sincx:2:2:bin:/bin:/usr/sbin/nologin

ys:x:3:3:sys:/dev:/usr/sbin/nologin

sync:4:65534:sync:/bin:/bin/sync

games:x:5:60:games:/usr/games:/usr/sbin/nologin 6:12:man:/var/cache/man:/usr/sbin/nologin

ipcx:7:7:1p:/var/spool/ipd:/usr/sbin/nologin

C8:8:mail:/var/mail:/usr/sbin/nologin

exs:x:9:9:news:/var/spool/news:/usr/sbin/nologin cp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin

proxy:x:13:13:proxy:/bin:/usr/sbin/nologin

ar-data:x:33:33:-data:/var/ar:/usr/sbin/nologin

backup:x:34:34:backup:/var/backups:/usr/sbin/nologin

list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin

inc:x:39:39:incd:/run/incd:/usr/sbin/nologin

nats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin

ystemd-network:x:100:102:systemd Network Management,,,;/run/systemd:/usr/sbin/nologin

systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin

essagebus:x:102:105::/nonexistent:/usr/sbin/nologin

systemd-timesync:x:103:106:systemd Time Synchronization,,,;/run/systemd:/usr/sbin/nologin

syslog:x:104:111::/home/syslog:/usr/sbin/nologin

apt:x:105:65534::/nonexistent:/usr/sbin/nologin

uidd:x:106:112::/run/uuidd:/usr/sbin/nologin

tcpdump:x:107:113::/nonexistent:/usr/sbin/nologin raja:x:1000:1000;,,,;/home/raja:/bin/bash

ostgres:x:108:118:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash

dnsmasq:x:109:65534: dnsmasq,,,:/var/lib/aisc:/usr/sbin/nologin

sshd:x:110:65534::/run/sshd:/usr/sbin/nologin

dev:x:1001:1002::/home/dev:/bin/bash

Dell@DESKTOP-3FU602L:/\$

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

Dell@DESKTOP-JFU402L:/

Dell@DESKTOP-JFU402L:/\$ whatis cp

cp (1) copy files and directories

Dell@DESKTOP-JFU402L:/\$

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

Dell@DESKTOP-JFU402L: ~

Dell@DESKTOP-JFU402L:\$ printf hello helloraja@DESKTOP-JFU402L:\$ echo hello hello

Dell@DESKTOP-JFU402L:~\$

9. In the home directory, create a directory *BCA2022*. Inside the *BCA2022*, create another directory *<Fist,Name_Section_ClassRoll>* and get into the directory [~ /BCA2020/Ankur_A_00\$].

Dell@DESKTOP-JFU402L: /home/MCA2022

Dell@DESKTOP-JFU402L:/home\$ sudo mkdir MCA2022 && cd MCA2022

Dell@DESKTOP-JFU402L:/home/MCA2022\$ mkdir Name_A_15

mkdir: cannot create directory 'Name_A_15': Permission denied

Dell@DESKTOP-JFU402L:/home/MCA2022\$ sudo mkdir Name A 15

Dell@DESKTOP-JFU402L:/home/MCA2022\$ ls -a Name A 15

Dell@DESKTOP-JFU402L:/home/MCA2022\$

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

@DESKTOP U402 /home/MCA2022/Unis File System

(SKTOP-3F040213/home/1A2022\$ sudo mkdir Unix File System && cd Unix File System

File Systems sudo mkdir TestA Test Testc/TestA/TestA-1/TestB/TestB-1 /Testo/Test8-2/TestB/Test8-3/Testc/TestC-1 ./Test8/Test8-7/le SKTOP FURO211/home/NCA2022/Unix File Systems is a

TestA Test TestC

Dell@OESKTOP-3F040243/home/MCA2022/Unix_File System