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SF- Experiment- 01

Aim: Explore the internal commands of Linux

Do the following

1. Display top 10 processes in descending order

```
$ ps|head
     PID     PPID    PGID    WINPID    TTY        UID      STIME COMMAND
     976     975     976     15096     pty0       197609 07:46:46 /usr/bin/bash
     986     976     986      2740     pty0       197609 07:47:14 /usr/bin/ps
     975       1     975     15972     ?          197609 07:46:46 /usr/bin/mintty
     987     976     986      7672     pty0       197609 07:47:14 /usr/bin/bash
```

2. Display processes with highest memory usage.

```
         ps -eo pid,%mem --sort=-%mem |head
 PID %MEM
 573  1.6
 494  1.2
 844  0.7
 874  0.7
 847  0.6
 536  0.5
 627  0.4
 950  0.4
 918  0.4
```

3. Display current logged in user and logname.

```
$ whoami
ALISTAIR
```

```
         who | cut -d' ' -f1 | sort | uniq
pi
```

```
$ id
uid=197609(ALISTAIR) gid=197609(ALISTAIR) groups=197609(ALISTAIR),401408(Medium
Mandatory Level),545(Users),4(INTERACTIVE),66049(CONSOLE LOGON),11(Authenticated
 Users),15(This Organization),68496(MicrosoftAccount+shaanalistair47@gmail.com),
113(Local account),4095(CurrentSession),66048(LOCAL),262180(Cloud Account Authen
tication)
```

4. Display current shell, home directory, operating system type, current path setting, current working directory.

Current Shell

```
$ echo $SHELL
/bin/bash
```

Current Working Directory

```
$ pwd
/home/ALISTAIR
```

Operating System Type

```
        cat /proc/version
Linux version 5.10.63-v7l+ (dom@buildbot) (arm-linux-gnueabihf-gcc-8 (Ubuntu/Linaro 8.4.0-3ubuntu1) 8.4.0, GNU ld (GNU B
inutils for Ubuntu) 2.34) #1496 SMP Wed Dec 1 15:58:56 GMT 2021
```

Current path setting

```
        echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/local/games:/usr/games
```

Home directory

```
$ pwd
/home/ALISTAIR
```

5. Display OS version, release number, kernel version

OS Version

```
$ uname -r
3.1.7-340.x86_64
```

6. Illustrate the use of sort, grep, awk, etc. sort file1.txt grep "name" file1.txt

```
$ cat file1.txt
My
name
is
Alistair


$ sort file1.txt
Alistair
My
is
name


$ grep name file1.txt
name
```