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Assignment No. 0

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1.   pwd command

To check the full path of your current working directory, use the pwd
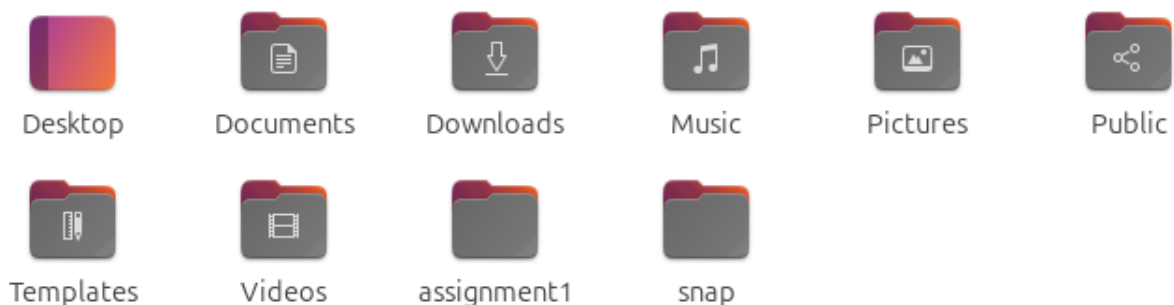command.

2.   mkdir command

The mkdir command lets you create one or multiple directories.
The syntax looks like this: mkdir [options] directory_name1 directory_name2

To create a folder in another location, specify the full path. Otherwise, this command will
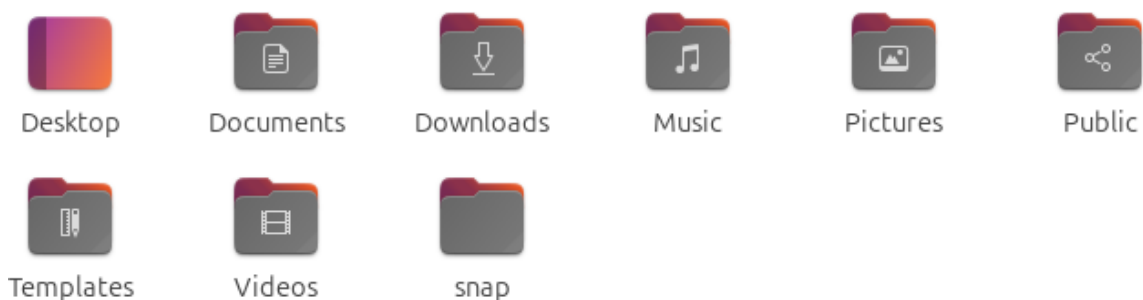make the new item in your current working directory.

3.   rm command

The rm command deletes files from a directory. You must have the write permission for the
folder or use sudo. Here's the syntax:
rm [options] file1 file

4.   cd command

Use cd to navigate between directories in your Linux VPS. It doesn't have any option, and the syntax is simple:

cd [path_or_directory]

- cd – returns to the current user's home directory.
- cd .. – moves a directory up.
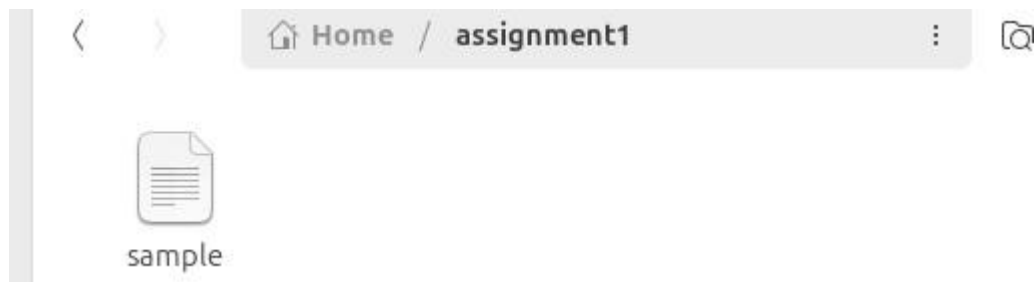- cd – – goes back to the previous directory.

5.   touch command

Run the touch command to create a new empty file in a specific directory. The syntax is as follows:

touch [options] [path_and_file_name]

If you omit the path, the touch command will create a new file in your current working directory. Here's an example:

touch file.txt

6.   mv command

The main usage of the mv command is to move a file or folder to another location. Here's the syntax:

mv file_or_directory [target_directory]

```
ubuntu@ubuntu:~$ mv sample ./assignment1
ubuntu@ubuntu:~$ ls
Desktop      Downloads   Pictures   Templates   assignment1
Documents    Music       Public     Videos      snap
ubuntu@ubuntu:~$ cd assignment1
ubuntu@ubuntu:~/assignment1$ ls
sample
```
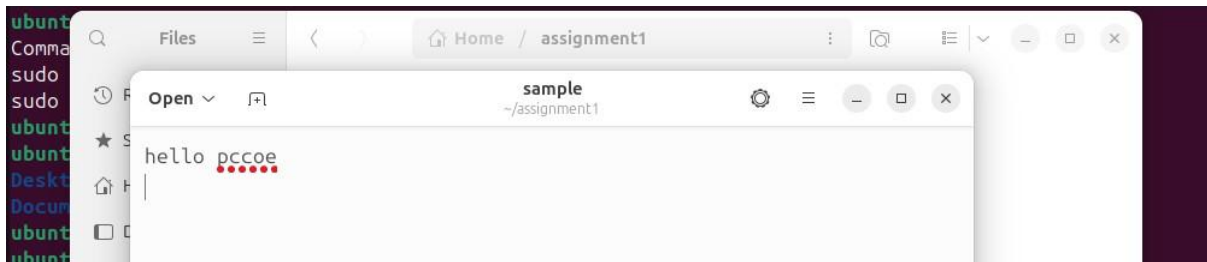

7.   cat command

The concatenate or cat command has various usages. The most basic one is printing the content of a file. Here's the syntax:
cat file_name


```
ubuntu@ubuntu:~$ cd assignment1/
ubuntu@ubuntu:~/assignment1$ cat sample
hello pccoe


ubuntu@ubuntu:~/assignment1$
```

8.   grep command

Global regular expression print or grep lets you search specific lines from a file using keywords. It is useful for filtering large data like logs. The syntax looks as follows:
grep [options] keyword [file]


```
ubuntu@ubuntu:~/assignment1$ grep e sample
hello pccoe
```

9.   history command

Run the history command to check previously run utilities. Here's its syntax:

history [options]

```
ubuntu@ubuntu:~/assignment1$ history
    1  lr
    2  sudo apt update
    3  sudo apt install build-essentials dkms linux-header-$(uname -r)
    4  lr
    5  sudo apt install lr
    6  lr
    7  sudo apt install -y build-essentials dkms linux-header-$(uname -r)
    8  sudo apt install -y build-essential linux-header-$(uname -r)
    9  sudo apt install -y build-essential linux-headers-$(uname -r)
   10  mkdir assignment1
   11  cd assignment1
   12  cd ..
   13  ls
   14  pwd
   15  rm -r assignment1
   16  ls
   17  mkdir assignment1
   18  cd assignment1
   19  cd ..
   20  ls
   21  touch sample
   22  mv sample ./assinment1
   23  ls
   24  mv sample ./assignment1
   25  rs -r assinment1
   26  rm -r assinment1
   27  ls
   28  touch sample
   29  mv sample ./assignment1
   30  ls
   31  cd assignment1
   32  ls
   33  cat sample
top - 20:24:01 up 23 min,  1 user,  load average: 0.11, 0.25, 0.45
Tasks: 368 total,   3 running, 365 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.3 us,  1.3 sy,  0.0 ni, 98.3 id,  0.0 wa,  0.0 hi,  0.1 si,  0.0 st
MiB Mem :  10835.0 total,   1226.5 free,   2008.0 used,   8495.9 buff/cache
MiB Swap:      0.0 total,      0.0 free,      0.0 used.   8826.9 avail Mem
```

```
  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
 2487 ubuntu    20   0 6671892 435368 145192 R  22.6   3.9   2:16.53 gnome-shell
 2242 ubuntu    20   0  349868  99684  64876 R  12.0   0.9   0:41.65 Xorg
 6924 ubuntu    20   0  852908  55688  42812 S   4.7   0.5   0:04.15 gnome-terminal-
 1100 root      20   0       0      0      0 I   0.9   0.0   0:00.31 kworker/2:2-mm_percpu_wq
 7262 ubuntu    20   0   23736   5632   3456 R   0.9   0.1   0:00.06 top
   17 root      20   0       0      0      0 I   0.4   0.0   0:02.50 rcu_preempt
 2727 ubuntu    20   0  423444  23400  17088 S   0.4   0.2   0:00.83 gsd-keyboard
 4090 ubuntu    20   0  499136  26952  19820 S   0.4   0.2   0:00.84 update-notifier
 5176 ubuntu    20   0 3516964  69908  52344 S   0.4   0.6   0:02.24 gjs
 5635 root      20   0       0      0      0 I   0.4   0.0   0:00.20 kworker/0:1-events
    1 root      20   0   23376  13984   9376 S   0.0   0.1   0:24.71 systemd
    2 root      20   0       0      0      0 S   0.0   0.0   0:03.00 kthreadd
top - 20:24:01 up 23 min,  1 user,  load average: 0.11, 0.25, 0.45
Tasks: 368 total,   4 running, 364 sleeping,   0 stopped,   0 zombie
%Cpu(s):  2.8 us, 12.7 sy,  0.0 ni, 84.5 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  10835.0 total,   1226.5 free,   2008.0 used,   8495.9 buff/cache
MiB Swap:      0.0 total,      0.0 free,      0.0 used.   8826.9 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
 2487 ubuntu    20   0 6675540 438952 148776 R 180.0   4.0   2:16.62 gnome-shell
 2242 ubuntu    20   0  348280 100892  64488 R  40.0   0.9   0:41.67 Xorg
 2718 ubuntu    20   0  472776  12968   6912 S  20.0   0.1   0:03.53 ibus-daemon
 6924 ubuntu    20   0  853292  55944  42812 S  20.0   0.5   0:04.16 gnome-terminal-
 7262 ubuntu    20   0   23736   5632   3456 R  20.0   0.1   0:00.07 top
    1 root      20   0   23376  13984   9376 S   0.0   0.1   0:24.71 systemd
    2 root      20   0       0      0      0 S   0.0   0.0   0:03.00 kthreadd
    3 root      20   0       0      0      0 S   0.0   0.0   0:00.00 pool_workqueue_release
    4 root       0 -20       0      0      0 I   0.0   0.0   0:00.34 kworker/R-rcu_g
    5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-rcu_p
    6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-slub_
    7 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-netns
   10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
   11 root      20   0       0      0      0 I   0.0   0.0   0:00.10 kworker/u28:0-netns
   12 root       0 -20       0      0      0 I   0.0   0.0   0:00.65 kworker/R-mm_pe
   13 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_kthread
   14 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
   15 root      20   0       0      0      0 I   0.0   0.0   0:00.01 rcu_tasks_trace_kthread
   16 root      20   0       0      0      0 S   0.0   0.0   0:00.85 ksoftirqd/0
   17 root      20   0       0      0      0 I   0.0   0.0   0:02.50 rcu_preempt
   18 root      rt   0       0      0      0 S   0.0   0.0   0:01.29 migration/0
   19 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
   20 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
   21 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
   22 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/1
top: write error
```

10.   echo command

Use echo to print text in your command as a Terminal output. Here's the syntax:
echo [options] [text]

11. ls

Lists files and directories in the current directory. Use options like
-l for detailed info or -a to include hidden files.
Here's the syntax:

12.   time command

The time command measures the execution time of commands or scripts to gain insights into your system performance. The basic syntax looks as follows:
time command_or_script

13.   top command

The top command displays all running processes in your system and their hardware consumption. The syntax looks like this:
top [options]

14.   head

Shows the first few lines of a file (default is 10 lines). Use the -n option to specify the number of lines.

Example: head -n 5 file.txt.

15.   Ls -F

The ls -F command lists directory contents and appends symbols to indicate the type of each item. For example
/ for directories.
* for executable files.

16.   shutdown command

The shutdown command lets you turn off or restart your Linux system at a specific time.
Here's the syntax:
shutdown [option] [time] [message]