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#### **ASSIGNMENT 1**

Q1.

Create a new file:

```
onworks@onworks-Standard-PC-t440FX-PIIX-1996:-$ ed
a
hello everyone
.
w aryan
15
q
```

#### i. Information Maintenance

**WC:** This command is used to count the number of lines, words, and characters in a file. Example: wc file.txt

```
onworks@onworks-Standard-PC-1440FX-PIIX-1996:~$ wc aryan
1 2 15 aryan
```

CAL: Displays a calendar for a specified month and year. Example: cal 8 2023

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cal 8 202
August 2023
So Mo Di Mi Do 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
```

**CLEAR:** Clears the terminal screen. Example: clear

WHO: Shows information about users who are currently logged in. Example: who

```
onworks@onworks-Standard-PC-1440FX-PIIX-1996:-$ who onworks :0 2020-11-29 12:25 (:0)
```

date: Displays the current date and time. Example: date

```
onworks@onworks-Standard-PC-1440FX-PIIX-1996:-$ date Di 29. Aug 16:03:03 CEST 2023
```

pwd: Prints the current working directory. Example: pwd

```
onworks@onworks-Standard-PC-1440FX-PIIX-1996:-$ pwd
/home/onworks
```

## ii. File management

Cat: Concatenates and displays the contents of one or more files. Example: cat file1.txt file2.txt

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ cat aryan hello everyone
```

Cp: Copies files or directories from a source to a destination. Example: cp file.txt

copy txt

```
onworks@onworks-Standard-PC-1440FX-PIIX-1996:-$ cp aryan copy onworks@onworks-Standard-PC-1440FX-PIIX-1996:-$ cat copy1 hello everyone
```

rm: Removes (deletes) files or directories. Example: rm file.txt

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ rm copy1
 onworks@onworks-Standard-PC-1440FX-PIIX-1996:~$ cat copy1
cat: copy1: No such file or directory
Moves (renames) files or directories. Example: mv oldfile.txt newfile.txt
onworks@onworks-Standard-PC-1440FX-PIIX-1996:-$ mv copy1 copy
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ ed
Cmp: Compares two files byte by byte. Example: cmp file1.txt file2.txt
 /home/cs2year
 cs2year@cs415-OptiPlex-980:~$ cmp OS DS
 OS DS differ: byte 9, line 1
 cs2year@cs415-OptiPlex-980:~$ comm OS DS
comm: Compares two sorted files line by line and shows common or unique lines. Example:
comm file1.txt file2.txt
onworks@onworks-Standard-PC-1440FX-PIIX-1996:-S ed
aryan
w file3
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ comm aryan file3
hello everyone
diff: Displays the differences between two files. Example: diff file1.txt file2.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ diff aryan file3
1c1
< hello everyone
> aryan
find: Searches for files and directories based on various criteria. Example: find
/path/to/search -name "*.txt"
onworks@onworks-Standard-PC-1440FX-PIIX-1996:-$ find aryan
aryan
grep: Searches for a specified pattern in files. Example: grep "keyword" file.txt
onworks@onworks-Standard-PC-1440FX-PIIX-1996:-$ grep "o" aryan
hello everyone
awk: A powerful text processing tool that processes files line by line. Example: awk '{print
$1}' file.txt
```

```
onworks@onworks-Standard-PC-1440FX-PIIX-1996:~$ awk '{print $1}' aryan hello
```

### iii).Directory Mangement

**cd:** Changes the current directory. Example: cd /path/to/directory

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ mkdir directory1
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ cd directory1
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-/directory1$ cd
```

```
mkdir: Creates a new directory. Example: mkdir new_directory
```

```
hello
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ mkdir directory1
```

# rmdir: Removes an empty directory. Example: rmdir empty\_directory

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ ls directory1
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ rmdir directory1
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$ cd directory1
bash: cd: directory1: No such file or directory
onworks@onworks-Standard-PC-i440FX-PIIX-1996:-$
```

S: Lists the contents of a directory. Example: ls /path/to/directory