OS-Assignment-1

- 1) Man Command to get help about commands
- 2) uname Print System information
- 3) pwd Print current directory
- 4) hostname Print IP address and hostname of the machine
- 5) date Find today's date
- 6) cal Print Calendar for Current year

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ man man
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ uname -s
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ pwd
/home/sunbeam
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ hostname
sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ date
Monday 20 May 2024 06:19:18 PM IST
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cal -y 2024
                          2024
                          February
      January
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
   1 2 3 4 5 6
   8 9 10 11 12 13 4 5 6 7 8 9 10
                                        3 4 5 6
14 15 16 17 18 19 20 11 12 13 14 15 16 17 10 11 12 13 14 15 16
21 22 23 24 25 26 27 18 19 20 21 22 23 24 17 18 19 20 21 22 23
28 29 30 31
                    25 26 27 28 29
                                         24 25 26 27 28 29 30
                                         31
      April
                            May
                                                June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      2 3 4 5 6
                                2 3 4
                              1
   8 9 10 11 12 13 5 6 7 8 9 10 11 2 3 4 5 6 7 8
14 15 16 17 18 19 20 12 13 14 15 16 17 18
                                        9 10 11 12 13 14 15
21 22 23 24 25 26 27 19 20 21 22 23 24 25 16 17 18 19 20 21 22
28 29 30
                    26 27 28 29 30 31
                                         23 24 25 26 27 28 29
       July
                           August
                                             September
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
                                         1 2 3 4 5 6 7
      2 3 4 5 6
                                1 2 3
   8 9 10 11 12 13
                    4 5 6 7 8 9 10
                                         8 9 10 11 12 13 14
14 15 16 17 18 19 20 11 12 13 14 15 16 17
                                        15 16 17 18 19 20 21
21 22 23 24 25 26 27 18 19 20 21 22 23 24 22 23 24 25 26 27 28
28 29 30 31
                    25 26 27 28 29 30 31 29 30
     October 0
                          November
                                              December
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
                                   1 2 1 2 3 4 5 6 7
   7 8 9 10 11 12 3 4 5 6 7 8 9
                                        8 9 10 11 12 13 14
13 14 15 16 17 18 19 10 11 12 13 14 15 16 15 16 17 18 19 20 21
22 23 24 25 26 27 28
27 28 29 30 31
                    24 25 26 27 28 29 30 29 30 31
```

- 7) ls,dir See directory structure
- 8)cat Create file
- 9)cat >> Append some text into existing file

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
                                         hs err pid4695.log hs err pid7506.log Practice Videos
                                         hs err pid5844.log kdac
         0820022.zip hs err pid3431.log hs err pid6396.log Music
                     hs err pid3844.log hs err pid7150.log Pictures
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-av1xxx:~S dir
                                         hs err pid4695.log hs err pid7506.log Practice
ccee
                      Documents
                                                                                           Videos
Cpp 240340820022
                     Downloads
                                         hs err pid5844.log kdac
                                                                                Public
                                                                                           wpt
Cpp_240340820022.zip hs_err_pid3431.log hs_err_pid6396.log Music
                                                                                 snap
                     hs err pid3844.log hs err pid7150.log Pictures
                                                                                Templates
Desktop
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat>aashita.txt
I am Aashita Bansod pursuing CDAC from Sunbeam Karad
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat aashita.txt
I am Aashita Bansod pursuing CDAC from Sunbeam Karad
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat>>aashita.txt
I am from Nagpur, Maharashtra
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat aashita.txt
I am Aashita Bansod pursuing CDAC from Sunbeam Karad
I am from Nagpur,Maharashtra
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cp aashita.txt cdac.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
aashita.txt
                                       hs err pid3431.log hs err pid6396.log Music
                                       hs err pid3844.log hs err pid7150.log Pictures Templates
                                       hs err pid4695.log hs err pid7506.log Practice Videos
cdac.txt
                                       hs err pid5844.log kdac
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat cdac.txt
I am Aashita Bansod pursuing CDAC from Sunbeam Karad
I am from Nagpur, Maharashtra
```

10) cp - Copy a file, Copy a directory

11) mv - Move the files

12) mv- Rename a file.

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:-$ mkdir cdac
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~S ls
aashita.txt Cpp 240340820022
                                                      hs err pid5844.log kdac
                                  hs err pid3431.log hs err pid6396.log Music
                                  hs err pid3844.log hs err pid7150.log Pictures
cdac.txt
                                  hs err pid4695.log hs err pid7506.log Practice
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ mkdir aashita
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-av1xxx:~S ls
                                  hs err pid3431.log hs err pid7150.log Practice wpt
aashita.txt Cpp_240340820022.zip
                                  hs err pid3844.log hs err pid7506.log Public
                                  hs err pid4695.log kdac
                                  hs err pid5844.log Music
cdac.txt
                                  hs err pid6396.log Pictures
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:-$ cp -r cdac copy
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
                                                      hs err pid6396.log Pictures
aashita.txt Cpp 240340820022
                                  hs err pid3431.log hs err pid7150.log Practice
                                  hs err pid3844.log hs err pid7506.log
                                  hs err pid4695.log kdac
cdac.txt
                                  hs err pid5844.log Music
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ mkdir sunbeam
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
                                                     hs err pid6396.log Pictures Templates
aashita.txt Cpp 240340820022
                                  hs err pid3431.log hs err pid7150.log Practice
                                  hs err pid3844.log hs err pid7506.log Public
                                  hs err pid4695.log kdac
                                  hs err pid5844.log Music
cdac.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ mv aashita.txt sunbeam.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
                               hs err pid3431.log hs err pid7150.log Practice
          Cpp 240340820022.zip
                               hs err pid3844.log hs err pid7506.log Public
                               hs err pid4695.log kdac
cdac.txt Documents
                               hs err pid5844.log Music
                                                                      sunbeam.txt
                               hs err pid6396.log Pictures
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ mv sunbeam.txt sunbeamkarad.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
                               hs err pid3431.log hs err pid7150.log Practice
                               hs err pid3844.log hs err pid7506.log Public
                               hs err pid4695.log kdac
                               hs err pid5844.log Music
cdac.txt Documents
                               hs err pid6396.log Pictures
                                                                      sunbeamkarad.txt
```

13) tac,rev- Print the file in reverse order, Reverse each line in the file

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat cdac.txt
I am Aashita Bansod pursuing CDAC from Sunbeam Karad
I am from Nagpur,Maharashtra
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ rev cdac.txt
daraK maebnuS morf CADC gniusrup dosnaB atihsaA ma I
arthsarahaM,rupgaN morf ma I
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ tac cdac.txt
I am from Nagpur,Maharashtra
I am Aashita Bansod pursuing CDAC from Sunbeam Karad
```

14) wc - Count the words, characters and lines in a file

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ wc -w cdac.txt
13 cdac.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ wc -l cdac.txt
2 cdac.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ man wc
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ wc -m cdac.txt
82 cdac.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

15) mkdir – Create Directory

16) cd - Change current directory

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cd sunbeam
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/sunbeam$ ls
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~/sunbeam$
```

17) rm - Remove a file, remove a directory (with -R)

```
hs_err_pid6396.log Pictures sunbeamkarad.txt
                              hs err pid3431.log hs err pid7150.log Practice Templates
                              hs err pid3844.log hs err pid7506.log Public
cdac.txt Desktop
                              hs_err_pid4695.log kdac
                              hs err pid5844.log Mustc
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:-$ cat sunbeamkarad.txt
I am Aashita Bansod pursuing CDAC from Sunbeam Karad
I am from Nagpur, Maharashtra
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ rm sunbeamkarad.txt
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
                                                  hs err pid6396.log Pictures Templates
         Cpp 240340820022.zip hs err pid3431.log hs err pid7150.log Practice Videos
                              hs err pid3844.log hs err pid7506.log Public
                              hs err pid4695.log kdac
cdac.txt Desktop
                              hs_err_pid5844.log Music
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

18) rmdir - remove empty directory

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ man rm
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ mkdir os
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
                                      hs err pid3431.log hs err pid7150.log Pictures Templates
                 Cpp 240340820022.zip
                                       hs err pid3844.log hs err pid7506.log Practice Videos
                                      hs err pid4695.log kdac
cdac.txt
                                      hs err pid5844.log Music
                                      hs err pid6396.log os
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ rmdir os
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
                                      hs err pid3431.log hs err pid7150.log Practice
                                      hs err pid3844.log hs err pid7506.log Public
                                      hs err pid4695.log kdac
cdac.txt
                                      hs err pid5844.log Music
                                      hs err pid6396.log Pictures
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

20) Sort – Sort File

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:-$ cat > shilpa.txt
Rishabh
Ashita
Virat
Klrahul
Rohit
Shilpa
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:-$ sort shilpa.txt
Ashita
Klrahul
Rishabh
Rohit
Shilpa
Virat
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:-$
```

21) uniq - Avoid repetition in a file.

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat file1.txt
I am Aashita
I am Aashita
I am Aashita
From Nagpur
From Nagpur
Hello
Hello
Hello
Hello
Sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ uniq file1.txt
I am Aashita
From Nagpur
Hello
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

22) head - Print the specified number of lines from top in the file.

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ head -n 2 fil2.txt
Hello!! I am Aashita Bansod
Pursuing cdac from sunbeam karad ,satara
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

23) tail - Print the specified number of lines from bottom in the file

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ tail -n 1 fil2.txt
I have 4 members in my family.
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

24) factor - Find the factors of a number

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ cat > file3.txt
100
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ factor 100
100: 2 2 5 5
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

25) alias - Create command shortcut

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ alias shortname='longer command'
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ alias CD="cd Desktop"
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ ls
                                   fil2.txt
                                                        hs_err_pid5844.log Pictures
                                                                                         s.txt
aashita.txt Cpr
                                   file1.txt
                                                        hs err pid6396.log Players.txt sunbeam
books.txt dac
                                   file3.txt
                                                       hs_err_pid7150.log Practice
                                   hs_err_pid3431.log hs_err_pid7506.log Public
cdac.txt Documents
                                   hs_err_pid3844.log kdac
                                                                            shilpa.txt wpt
                                   hs_err_pid4695.log Music
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ alias -p
alias CD='cd Desktop'
alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo terminal || echo error)" "$(history|t
ail -n1|sed -e '\''s/^\s*[\overline{0}-9]\+\s*/\overline{)}; $\[;&|]\s*alert$\\\'\'\\'\"
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l='ls -CF'
alias la='ls -A'
alias ll='ls -alF'
alias ls='ls --color=auto'
alias shortname='longer command'
```

26) unalias - remove the command shortcut

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ unalias CD
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ alias -p
alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo terminal || echo error)" "$(history|t
ail -n1|sed -e '\''s/\s*[0-9]\+\s*//;s/[;&|]\s*alert$//'\'')"'
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l='ls -CF'
alias la='ls -A'
alias l='ls -alF'
alias ls='ls --color=auto'
alias shortname='longer command'
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

27) echo - Print environment variables individually

```
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ echo $ SHELL
$ SHELL
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ echo $SHELL
/bin/bash
sunbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$
```

28) ps – Print current process

29) kill- kill the process.

30) env- Print environment variables

XDG_RUNTIME_DIR=/run/user/1000

```
unbeam@sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:~$ printenv
 SESSION MANAGER=local/sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:0/tmp/.ICE-unix/1757,unix/sunbeam-HP-ENVY-x360-Convertible-13-ay1xxx:/tmp/.ICE-unix/1757
OT ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
SSH_AGENT_LAUNCHER=gnome-keyring
NVM_INC=/home/sunbeam/.nvm/versions/node/v20.12.2/include/node
XDG MENU PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
LANGUAGE=en IN:en
GNOME SHELL SESSION MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
XMODIFIERS=@im=ibus
DESKTOP_SESSION=ubuntu
GTK_MODULES=gail:atk-bridge
PWD=/home/sunbeam
LOGNAME=sunbeam
XDG_SESSION_DESKTOP=ubuntu
XDG_SESSION_TYPE=wayland
SYSTEMD_EXEC_PID=1792
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.GOW5N2
 HOME=/home/sunbeam
  USERNAME=sunbeam
  IM_CONFIG_PHASE=1
LANG=en IN
LS COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:bd=40;33;01:cd=40;33;01:cd=40;33;01:mi=00:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arc=01
;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.lzh=01;31:*.
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