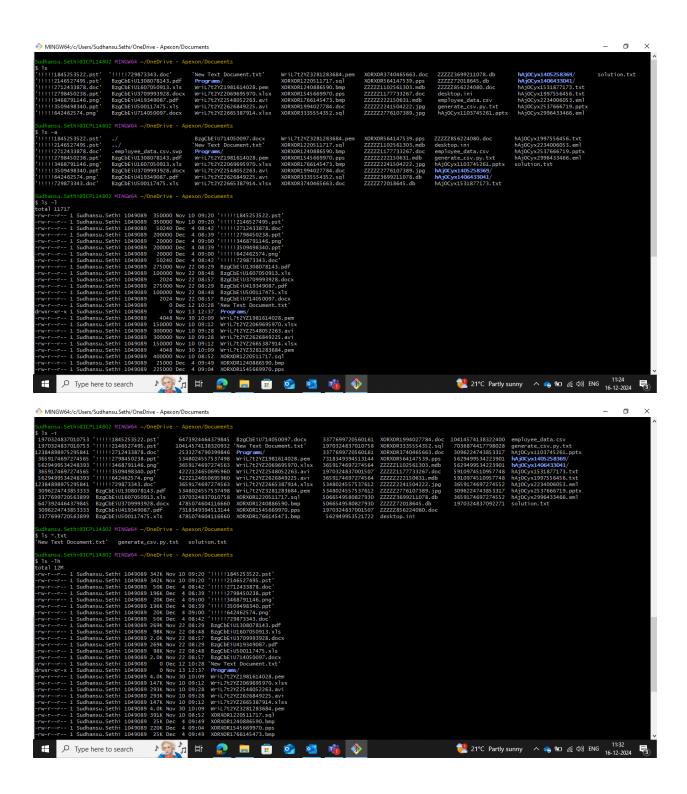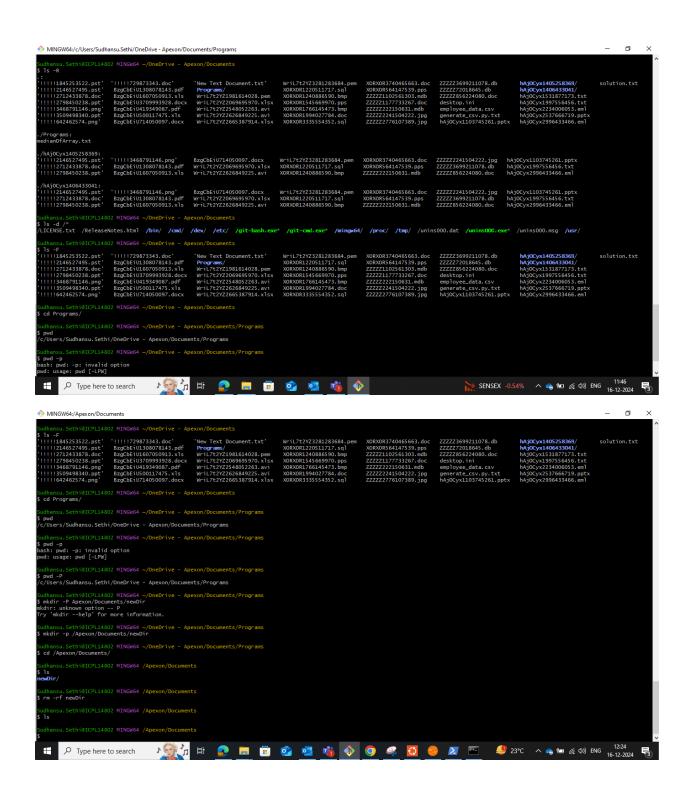# File and Directory Management:

MINGW64:/c/Users/Sudhansu.Sethi/OneDrive - Apexon/Documents/Programs

```
Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents
$ ls -R
.:
'!!!!!1845253522.pst'   '!!!!!729873343.doc'    'New Text Document.txt'    WriL7t2YZ3281283684.pem    XORXOR3740465663.doc    ZZZZZ3699211078.db     hAjOCyx1405258369/       solution.txt
'!!!!!2146527495.pst'    BzgCbEiU1308078143.pdf   Programs/                 XORXOR1220511717.sql       XORXOR564147539.pps     ZZZZZ72018645.db       hAjOCyx1406433041/
'!!!!!2712433878.doc'    BzgCbEiU1607050913.xls   WriL7t2YZ1981614028.pem   XORXOR1240886590.bmp       ZZZZZ1102561303.mdb     ZZZZZ856224080.doc     hAjOCyx1531877173.txt
'!!!!!2798450238.ppt'    BzgCbEiU3709993928.docx  WriL7t2YZ2069695970.xlsx  XORXOR1545669970.pps       ZZZZZ1177733267.doc     desktop.ini            hAjOCyx1997556456.txt
'!!!!!3468791146.png'    BzgCbEiU419349087.pdf    WriL7t2YZ2548052263.avi   XORXOR1766145473.bmp       ZZZZZ222150631.mdb      employee_data.csv      hAjOCyx2234006053.eml
'!!!!!3509498340.ppt'    BzgCbEiU500117475.xls    WriL7t2YZ2626849225.avi   XORXOR1994027784.doc       ZZZZZ2241504222.jpg     generate_csv.py.txt    hAjOCyx2537666719.pptx
'!!!!!642462574.png'     BzgCbEiU714050097.docx   WriL7t2YZ2665387914.xlsx  XORXOR3335554352.sql       ZZZZZ2776107389.jpg     hAjOCyx1103745261.pptx hAjOCyx2996433466.eml

./Programs:
medianOfArray.txt

./hAjOCyx1405258369:
'!!!!!2146527495.pst'   '!!!!!3468791146.png'    BzgCbEiU714050097.docx   WriL7t2YZ3281283684.pem    XORXOR3740465663.doc    ZZZZZ2241504222.jpg     hAjOCyx1103745261.pptx
'!!!!!2712433878.doc'    BzgCbEiU1308078143.pdf   WriL7t2YZ2069695970.xlsx  XORXOR1220511717.sql       XORXOR564147539.pps     ZZZZZ3699211078.db     hAjOCyx1997556456.txt
'!!!!!2798450238.ppt'    BzgCbEiU1607050913.xls   WriL7t2YZ2626849225.avi   XORXOR1240886590.bmp       ZZZZZ222150631.mdb      ZZZZZ856224080.doc     hAjOCyx2996433466.eml

./hAjOCyx1406433041:
'!!!!!2146527495.pst'   '!!!!!3468791146.png'    BzgCbEiU714050097.docx   WriL7t2YZ3281283684.pem    XORXOR3740465663.doc    ZZZZZ2241504222.jpg     hAjOCyx1103745261.pptx
'!!!!!2712433878.doc'    BzgCbEiU1308078143.pdf   WriL7t2YZ2069695970.xlsx  XORXOR1220511717.sql       XORXOR564147539.pps     ZZZZZ3699211078.db     hAjOCyx1997556456.txt
'!!!!!2798450238.ppt'    BzgCbEiU1607050913.xls   WriL7t2YZ2626849225.avi   XORXOR1240886590.bmp       ZZZZZ222150631.mdb      ZZZZZ856224080.doc     hAjOCyx2996433466.eml

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents
$ ls -d /*
/LICENSE.txt   /ReleaseNotes.html  /bin/   /cmd/   /dev/   /etc/   /git-bash.exe*   /git-cmd.exe*   /mingw64/   /proc/   /tmp/   /unins000.dat   /unins000.exe*   /unins000.msg   /usr/

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents
$ ls -F
'!!!!!1845253522.pst'   '!!!!!729873343.doc'    'New Text Document.txt'    WriL7t2YZ3281283684.pem    XORXOR3740465663.doc    ZZZZZ3699211078.db     hAjOCyx1405258369/       solution.txt
'!!!!!2146527495.pst'    BzgCbEiU1308078143.pdf   Programs/                 XORXOR1220511717.sql       XORXOR564147539.pps     ZZZZZ72018645.db       hAjOCyx1406433041/
'!!!!!2712433878.doc'    BzgCbEiU1607050913.xls   WriL7t2YZ1981614028.pem   XORXOR1240886590.bmp       ZZZZZ1102561303.mdb     ZZZZZ856224080.doc     hAjOCyx1531877173.txt
'!!!!!2798450238.ppt'    BzgCbEiU3709993928.docx  WriL7t2YZ2069695970.xlsx  XORXOR1545669970.pps       ZZZZZ1177733267.doc     desktop.ini            hAjOCyx1997556456.txt
'!!!!!3468791146.png'    BzgCbEiU419349087.pdf    WriL7t2YZ2548052263.avi   XORXOR1766145473.bmp       ZZZZZ222150631.mdb      employee_data.csv      hAjOCyx2234006053.eml
'!!!!!3509498340.ppt'    BzgCbEiU500117475.xls    WriL7t2YZ2626849225.avi   XORXOR1994027784.doc       ZZZZZ2241504222.jpg     generate_csv.py.txt    hAjOCyx2537666719.pptx
'!!!!!642462574.png'     BzgCbEiU714050097.docx   WriL7t2YZ2665387914.xlsx  XORXOR3335554352.sql       ZZZZZ2776107389.jpg     hAjOCyx1103745261.pptx hAjOCyx2996433466.eml

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents
$ cd Programs/

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents/Programs
$ pwd
/c/Users/Sudhansu.Sethi/OneDrive - Apexon/Documents/Programs

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents/Programs
$ pwd -p
bash: pwd: -p: invalid option
pwd: usage: pwd [-LPW]
```

MINGW64:/Apexon/Documents

```
Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents
$ ls -F
'!!!!!1845253522.pst'   '!!!!!729873343.doc'    'New Text Document.txt'    WriL7t2YZ3281283684.pem    XORXOR3740465663.doc    ZZZZZ3699211078.db     hAjOCyx1405258369/       solution.txt
'!!!!!2146527495.pst'    BzgCbEiU1308078143.pdf   Programs/                 XORXOR1220511717.sql       XORXOR564147539.pps     ZZZZZ72018645.db       hAjOCyx1406433041/
'!!!!!2712433878.doc'    BzgCbEiU1607050913.xls   WriL7t2YZ1981614028.pem   XORXOR1240886590.bmp       ZZZZZ1102561303.mdb     ZZZZZ1177733267.doc    hAjOCyx1531877173.txt
'!!!!!2798450238.ppt'    BzgCbEiU3709993928.docx  WriL7t2YZ2069695970.xlsx  XORXOR1545669970.pps       ZZZZZ1177733267.doc     desktop.ini            hAjOCyx1997556456.txt
'!!!!!3468791146.png'    BzgCbEiU419349087.pdf    WriL7t2YZ2548052263.avi   XORXOR1766145473.bmp       ZZZZZ222150631.mdb      employee_data.csv      hAjOCyx2234006053.eml
'!!!!!3509498340.ppt'    BzgCbEiU500117475.xls    WriL7t2YZ2626849225.avi   XORXOR1994027784.doc       ZZZZZ2241504222.jpg     generate_csv.py.txt    hAjOCyx2537666719.pptx
'!!!!!642462574.png'     BzgCbEiU714050097.docx   WriL7t2YZ2665387914.xlsx  XORXOR3335554352.sql       ZZZZZ2776107389.jpg     hAjOCyx1103745261.pptx hAjOCyx2996433466.eml

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents
$ cd Programs/

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents/Programs
$ pwd
/c/Users/Sudhansu.Sethi/OneDrive - Apexon/Documents/Programs

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents/Programs
$ pwd -p
bash: pwd: -p: invalid option
pwd: usage: pwd [-LPW]

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents/Programs
$ pwd -P
/c/Users/Sudhansu.Sethi/OneDrive - Apexon/Documents/Programs

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents/Programs
$ mkdir -P Apexon/Documents/newDir
mkdir: unknown option -- P
Try 'mkdir --help' for more information.

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents/Programs
$ mkdir -p /Apexon/Documents/newDir

Sudhansu.Sethi@ICPL14802 MINGW64 ~/OneDrive - Apexon/Documents/Programs
$ cd /Apexon/Documents/

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ls
newDir/

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ rm -rf newDir

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ls

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$
```

Process Management:

```
MINGW64:/Apexon/Documents                                          —  □  ×

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ps aux
      PID   PPID   PGID   WINPID  TTY      UID    STIME    COMMAND
     1857   1756   1857    14408  pty0   1100471 12:25:11  /usr/bin/ps
     1755      1   1755     1476  ?      1100471 11:07:39  /usr/bin/mintty
     1756   1755   1756    18480  pty0   1100471 11:07:39  /usr/bin/bash

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ps -e
      PID   PPID   PGID   WINPID  TTY      UID    STIME    COMMAND
     1861   1756   1861    13436  pty0   1100471 12:25:21  /usr/bin/ps
     1755      1   1755     1476  ?      1100471 11:07:39  /usr/bin/mintty
     1756   1755   1756    18480  pty0   1100471 11:07:39  /usr/bin/bash

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ps -f
      UID    PID   PPID  TTY       STIME  COMMAND
Sudhansu    1865   1756  pty0    12:25:28  /usr/bin/ps
Sudhansu    1755      1  ?       11:07:39  /usr/bin/mintty
Sudhansu    1756   1755  pty0    11:07:39  /usr/bin/bash

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ps -ef
      UID    PID   PPID  TTY       STIME  COMMAND
Sudhansu    1869   1756  pty0    12:25:34  /usr/bin/ps
Sudhansu    1755      1  ?       11:07:39  /usr/bin/mintty
Sudhansu    1756   1755  pty0    11:07:39  /usr/bin/bash

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ps
      PID   PPID   PGID   WINPID  TTY      UID    STIME    COMMAND
     1873   1756   1873    21312  pty0   1100471 12:26:22  /usr/bin/ps
     1755      1   1755     1476  ?      1100471 11:07:39  /usr/bin/mintty
     1756   1755   1756    18480  pty0   1100471 11:07:39  /usr/bin/bash

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ps aux | grep pty0
     1877   1756   1877    20944  pty0   1100471 12:27:04  /usr/bin/ps
     1878   1756   1877    17852  pty0   1100471 12:27:04  /usr/bin/bash
     1756   1755   1756    18480  pty0   1100471 11:07:39  /usr/bin/bash

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ps --forest
ps: unknown option -- forest
Try 'ps --help' for more information.

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ps -- 1873
      PID   PPID   PGID   WINPID  TTY      UID    STIME    COMMAND
```

Network and Connectivity:


```
MINGW64:/Apexon/Documents                                          —  □  ×

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ ping www.google.com

Pinging www.google.com [2404:6800:4007:829::2004] with 32 bytes of data:
Reply from 2404:6800:4007:829::2004: time=7ms
Reply from 2404:6800:4007:829::2004: time=9ms
Reply from 2404:6800:4007:829::2004: time=9ms
Reply from 2404:6800:4007:829::2004: time=8ms

Ping statistics for 2404:6800:4007:829::2004:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 7ms, Maximum = 9ms, Average = 8ms

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ nestat
bash: nestat: command not found

Sudhansu.Sethi@ICPL14802 MINGW64 /Apexon/Documents
$ netstat

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    127.0.0.1:25427        ICPL14802:49672        ESTABLISHED
  TCP    127.0.0.1:25427        ICPL14802:59643        ESTABLISHED
  TCP    127.0.0.1:25428        ICPL14802:59680        ESTABLISHED
  TCP    127.0.0.1:49670        ICPL14802:55552        ESTABLISHED
  TCP    127.0.0.1:49672        ICPL14802:25427        ESTABLISHED
  TCP    127.0.0.1:55296        ICPL14802:51577        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51578        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51579        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51580        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51582        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51583        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51586        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51587        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51588        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51589        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51590        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51591        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51592        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51593        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51594        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51595        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51596        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51597        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51598        TIME_WAIT
  TCP    127.0.0.1:55296        ICPL14802:51599        TIME_WAIT
```

System Monitoring and Diagnostics:

```
root@ICPL14802:/home# uptime
 08:11:13 up 0 min,  0 user,  load average: 0.52, 0.58, 0.59
root@ICPL14802:/home# vmstat
vmstat: Unable to create vmstat structure
root@ICPL14802:/home# iostat
Command 'iostat' not found, but can be installed with:
apt install sysstat
root@ICPL14802:/home# free
              total        used        free      shared  buff/cache   available
Mem:       16160132    10805696     5354436       17720      229352     5354436
Swap:      31147448      490764    30656684
root@ICPL14802:/home# dmesg
[    0.023218] Microsoft 4.4.0-19041.4355-Microsoft 4.4.35
[    0.111583] <3>init: (1) ERROR: ConfigInitializeCommon:665: Failed to mount /usr/lib/wsl/drive
[    0.111589] : 19
[    0.111807] <3>init: (1) ERROR: ConfigInitializeCommon:665: Failed to mount /usr/lib/wsl/lib
[    0.111811] 19
[    0.639628] <3>init: (1) ERROR: UpdateTimezone:97: Asia/Calcutta timezone not found. Is the tzdata package installed?
[    0.639632] ;
[    0.639635] init: (1) ERROR: InitEntryWsl:2605: UpdateTimezone failed
root@ICPL14802:/home# sar
Command 'sar' not found, but can be installed with:
apt install sysstat
root@ICPL14802:/home# lsof
COMMAND PID TID TASKCMD USER   FD      TYPE DEVICE  SIZE       NODE NAME
init      1              root  cwd       DIR   0,2   4096  6473924464376818 /
init      1              root  rtd       DIR   0,2   4096  6473924464376818 /
init      1              root  txt       REG   0,2 644432  5066549580825094 /init
init      1              root  mem       REG   0,0           33286 /init (path dev=0,2, inode=5066549580825094)
init      1              root   3w       CHR  1,11        2251799813852537 /dev/kmsg
init      1              root   0u       CHR   1,3        1125899907009937 /dev/null
init      1              root   1u       CHR   1,3        1125899907009937 /dev/null
init      1              root   2u       CHR   1,3        1125899907009937 /dev/null
init      1              root   4u       CHR 10,50        1125899907009941 /dev/lxss
init      1              root   5u   unknown                                /unknown (stat: Operation not permitted)
init      1              root   8u       DIR   0,2   4096  6473924464376818 /
init      1              root   9u      sock   0,0                       8 can't identify protocol
init      1              root  10u   unknown                                anon_inode (stat: Operation not permitted)
init      1              root   6u   unknown                                anon_inode (stat: Operation not permitted)
init      1    6 init    root  cwd       DIR   0,2   4096  6473924464376818 /
init      1    6 init    root  rtd       DIR   0,2   4096  6473924464376818 /
init      1    6 init    root  txt       REG   0,2 644432  5066549580825094 /init
init      1    6 init    root  mem       REG   0,0           33286 /init (path dev=0,2, inode=5066549580825094)
init      1    6 init    root   3w       CHR  1,11        2251799813852537 /dev/kmsg
```



```
root@ICPL14802:/home# df
Filesystem      1K-blocks      Used Available Use% Mounted on
rootfs          249179612  74947068 174232544  31% /
none            249179612  74947068 174232544  31% /dev
none            249179612  74947068 174232544  31% /run
none            249179612  74947068 174232544  31% /run/lock
none            249179612  74947068 174232544  31% /run/shm
none            249179612  74947068 174232544  31% /run/user
tmpfs           249179612  74947068 174232544  31% /sys/fs/cgroup
C:\             249179612  74947068 174232544  31% /mnt/c
root@ICPL14802:/home# du
0       .
root@ICPL14802:/home# who
root@ICPL14802:/home# w
 08:13:08 up 2 min,  0 user,  load average: 0.52, 0.58, 0.59
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
root@ICPL14802:/home# last

wtmp begins Mon Dec 16 06:33:18 2024
root@ICPL14802:/home#
```
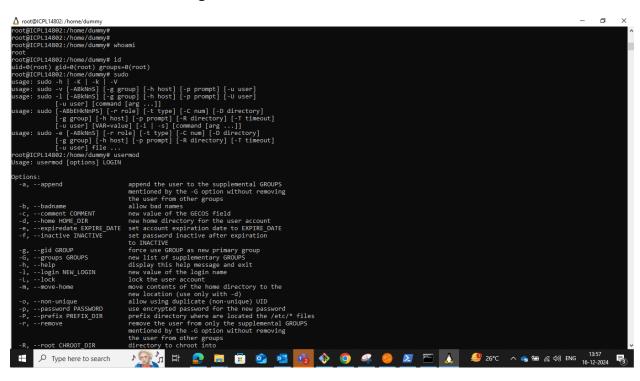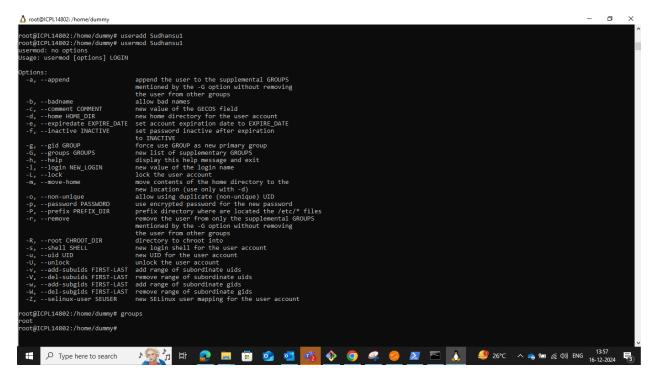
Log Management:

```
root@ICPL14802:/home# cd dummy/
root@ICPL14802:/home/dummy# ll
total 0
drwxr-xr-x 1 root root 4096 Dec 16 08:20 ./
drwxr-xr-x 1 root root 4096 Dec 16 08:18 ../
-rw-r--r-- 1 root root    0 Dec 16 08:20 newdoc.log
root@ICPL14802:/home/dummy# tail newdoc.log
root@ICPL14802:/home/dummy# head newdoc.log
root@ICPL14802:/home/dummy# vi newdoc.log
root@ICPL14802:/home/dummy# grep "error" newdoc.log
error msgerror msg
root@ICPL14802:/home/dummy# less newdoc.log
root@ICPL14802:/home/dummy# cat newdoc.log
error msgerror msg
root@ICPL14802:/home/dummy# journalctl
No journal files were found.
-- No entries --
root@ICPL14802:/home/dummy# logger "Custom log entry"
root@ICPL14802:/home/dummy#
```

User and Permission Management:

```
root@ICPL14802:/home/dummy#
root@ICPL14802:/home/dummy#
root@ICPL14802:/home/dummy# whoami
root
root@ICPL14802:/home/dummy# id
uid=0(root) gid=0(root) groups=0(root)
root@ICPL14802:/home/dummy# sudo
usage: sudo -h | -K | -k | -V
usage: sudo -v [-ABkNnS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-ABkNnS] [-g group] [-h host] [-p prompt] [-U user]
            [-u user] [command [arg ...]]
usage: sudo [-ABbEHkNnPS] [-r role] [-t type] [-C num] [-D directory]
            [-g group] [-h host] [-p prompt] [-R directory] [-T timeout]
            [-u user] [VAR=value] [-i | -s] [command [arg ...]]
usage: sudo -e [-ABkNnS] [-r role] [-t type] [-C num] [-D directory]
            [-g group] [-h host] [-p prompt] [-R directory] [-T timeout]
            [-u user] file ...
root@ICPL14802:/home/dummy# usermod
Usage: usermod [options] LOGIN

Options:
  -a, --append                  append the user to the supplemental GROUPS
                                mentioned by the -G option without removing
                                the user from other groups
  -b, --badname                 allow bad names
  -c, --comment COMMENT         new value of the GECOS field
  -d, --home HOME_DIR           new home directory for the user account
  -e, --expiredate EXPIRE_DATE  set account expiration date to EXPIRE_DATE
  -f, --inactive INACTIVE       set password inactive after expiration
                                to INACTIVE
  -g, --gid GROUP               force use GROUP as new primary group
  -G, --groups GROUPS           new list of supplementary GROUPS
  -h, --help                    display this help message and exit
  -l, --login NEW_LOGIN         new value of the login name
  -L, --lock                    lock the user account
  -m, --move-home               move contents of the home directory to the
                                new location (use only with -d)
  -o, --non-unique              allow using duplicate (non-unique) UID
  -p, --password PASSWORD       use encrypted password for the new password
  -P, --prefix PREFIX_DIR       prefix directory where are located the /etc/* files
  -r, --remove                  remove the user from only the supplemental GROUPS
                                mentioned by the -G option without removing
                                the user from other groups
  -R, --root CHROOT_DIR         directory to chroot into
```

```
root@ICPL14802:/home/dummy# useradd Sudhansu1
root@ICPL14802:/home/dummy# usermod Sudhansu1
usermod: no options
Usage: usermod [options] LOGIN

Options:
  -a, --append                 append the user to the supplemental GROUPS
                               mentioned by the -G option without removing
                               the user from other groups
  -b, --badname                allow bad names
  -c, --comment COMMENT        new value of the GECOS field
  -d, --home HOME_DIR          new home directory for the user account
  -e, --expiredate EXPIRE_DATE set account expiration date to EXPIRE_DATE
  -f, --inactive INACTIVE      set password inactive after expiration
                               to INACTIVE
  -g, --gid GROUP              force use GROUP as new primary group
  -G, --groups GROUPS          new list of supplementary GROUPS
  -h, --help                   display this help message and exit
  -l, --login NEW_LOGIN        new value of the login name
  -L, --lock                   lock the user account
  -m, --move-home              move contents of the home directory to the
                               new location (use only with -d)
  -o, --non-unique             allow using duplicate (non-unique) UID
  -p, --password PASSWORD      use encrypted password for the new password
  -P, --prefix PREFIX_DIR      prefix directory where are located the /etc/* files
  -r, --remove                 remove the user from only the supplemental GROUPS
                               mentioned by the -G option without removing
                               the user from other groups
  -R, --root CHROOT_DIR        directory to chroot into
  -s, --shell SHELL            new login shell for the user account
  -u, --uid UID                new UID for the user account
  -U, --unlock                 unlock the user account
  -v, --add-subuids FIRST-LAST add range of subordinate uids
  -V, --del-subuids FIRST-LAST remove range of subordinate uids
  -w, --add-subgids FIRST-LAST add range of subordinate gids
  -W, --del-subgids FIRST-LAST remove range of subordinate gids
  -Z, --selinux-user SEUSER    new SELinux user mapping for the user account

root@ICPL14802:/home/dummy# groups
root
root@ICPL14802:/home/dummy#
```

Archiving and Compression:

```
root@ICPL14802:/home/dummy# ll
total 0
drwxr-xr-x 1 root root 4096 Dec 16 08:22 ./
drwxr-xr-x 1 root root 4096 Dec 16 08:18 ../
-rw-r--r-- 1 root root   19 Dec 16 08:22 newdoc.log
root@ICPL14802:/home/dummy# tar new
newA  newc  newd  newr  newt  newu  newx
root@ICPL14802:/home/dummy# tar newdoc.log
tar: Old option 'g' requires an argument.
Try 'tar --help' or 'tar --usage' for more information.
root@ICPL14802:/home/dummy# tar -cf archive.tar
tar: Cowardly refusing to create an empty archive
Try 'tar --help' or 'tar --usage' for more information.
root@ICPL14802:/home/dummy# tar -cf archive.tar newdoc.log
root@ICPL14802:/home/dummy# gzip newdoc.log
root@ICPL14802:/home/dummy# ls
archive.tar  newdoc.log.gz
root@ICPL14802:/home/dummy# zip newdoc.log.gz
Command 'zip' not found, but can be installed with:
apt install zip
root@ICPL14802:/home/dummy# zip newdoc.log
Command 'zip' not found, but can be installed with:
apt install zip
root@ICPL14802:/home/dummy# zip archive.zip newdoc.log.gz
Command 'zip' not found, but can be installed with:
apt install zip
root@ICPL14802:/home/dummy# zip archive.zip newdoc.log
Command 'zip' not found, but can be installed with:
apt install zip
root@ICPL14802:/home/dummy# ll
total 12
drwxr-xr-x 1 root root  4096 Dec 16 08:31 ./
drwxr-xr-x 1 root root  4096 Dec 16 08:18 ../
-rw-r--r-- 1 root root 10240 Dec 16 08:30 archive.tar
-rw-r--r-- 1 root root    43 Dec 16 08:22 newdoc.log.gz
root@ICPL14802:/home/dummy# vi error.log
root@ICPL14802:/home/dummy# zip archive.zip error.log
Command 'zip' not found, but can be installed with:
apt install zip
root@ICPL14802:/home/dummy# xz error.log
root@ICPL14802:/home/dummy#
```

Disk Management: