

NAME- AAKASH KUMAR
ROLL NO. - 2105511

ASSIGNMENT-1

1.

```
/home/kiit/.hushlogin file.  
kiit@BT-2105511:~$ pwd  
/home/kiit
```

2.

```
kiit@BT-2105511:~$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos thinclient_drives
```

3.

```
kiit@BT-2105511:~$ who
```

4.

```
kiit@BT-2105511:~$ cd Desktop  
kiit@BT-2105511:~/Desktop$
```

5.

```
kiit@BT-2105511:~/Desktop$ mkdir oslab
```

6.

```
kiit@BT-2105511:~/Desktop$ date  
Thu Jan 12 13:08:57 IST 2023
```

7.

```
kiit@BT-2105511:~/Desktop$ touch os1.txt
```

8.

```
kiit@BT-2105511:~/Desktop$ echo I am Aakash Kumar. >>os1.txt
kiit@BT-2105511:~/Desktop$ echo I live in Lucknow. >>os1.txt
```

9.

```
kiit@BT-2105511:~/Desktop$ cat os1.txt
I am Aakash Kumar.
I live in Lucknow.
```

10.

```
kiit@BT-2105511:~/Desktop$ touch os1_1.txt
kiit@BT-2105511:~/Desktop$ cp os1.txt os1_1.txt
kiit@BT-2105511:~/Desktop$ cat os1_1.txt
I am Aakash Kumar.
I live in Lucknow.
```

11.

```
kiit@BT-2105511:~/Desktop$ echo I like football. >>os1_1.txt
kiit@BT-2105511:~/Desktop$ cat os1_1.txt
I am Aakash Kumar.
I live in Lucknow.
I like football.
kiit@BT-2105511:~/Desktop$ wc os1_1.txt
 3 11 55 os1_1.txt
```

12.

```
kiit@BT-2105511:~/Desktop$ wc -l os1_1.txt
3 os1_1.txt
```

13.

```
kiit@BT-2105511:~/Desktop$ wc -w os1_1.txt
11 os1_1.txt
```

14.

```
kiit@BT-2105511:~/Desktop$ wc -c os1_1.txt
55 os1_1.txt
```

15.

```
kiit@BT-2105511:~/Desktop$ head -1 os1_1.txt  
I am Aakash Kumar.
```

16.

```
kiit@BT-2105511:~/Desktop$ tail -2 os1_1.txt  
I live in Lucknow.  
I like football.
```

17.

```
kiit@BT-2105511:~/Desktop$ time  
  
real    0m0.000s  
user    0m0.000s  
sys     0m0.000s
```

18.

```
kiit@BT-2105511:~/Desktop$ times  
0m0.071s 0m0.042s  
0m0.037s 0m0.006s
```

19.

```
kiit@BT-2105511:~/Desktop$ mv os1_1.txt Documents
```

20.

```
kiit@BT-2105511:~/Desktop$ rename 's/os1_1/os1c/' .txt  
  
Command 'rename' not found, but can be installed with:  
sudo apt install rename
```

21.

```
kiit@BT-2105511:~/Desktop$ tac os1.txt  
I live in Lucknow.  
I am Aakash Kumar.
```

22.

```
kiit@BT-2105511:~/Desktop$ cat os1.txt | cat | tac | tac | cat
I am Aakash Kumar.
I live in Lucknow.
```

23.

```
kiit@BT-2105511:~/Desktop$ cut -dI -f2 os1.txt
am Aakash Kumar.
live in Lucknow.
```

24.

```
kiit@BT-2105511:~/Desktop$ cat os1.txt | grep Aaka
I am Aakash Kumar.
```

25.

```
kiit@BT-2105511:~/Desktop$ touch os1_2.txt
kiit@BT-2105511:~/Desktop$ cp os1.txt os1_2.txt
kiit@BT-2105511:~/Desktop$ echo I like football. >>os1_2.txt
kiit@BT-2105511:~/Desktop$ comm os1.txt os1_2.txt
      I am Aakash Kumar.
      I live in Lucknow.
      I like football.
comm: file 2 is not in sorted order
```

26.

```
kiit@BT-2105511:~/Desktop$ echo 4thyear | sed 's/4th/2nd/'
2ndyear
```

27.

```
kiit@BT-2105511:~/Desktop$ cat os1.txt | tee os1_2.txt | tac
I live in Lucknow.
I am Aakash Kumar.
kiit@BT-2105511:~/Desktop$ cat os1_2.txt
I am Aakash Kumar.
I live in Lucknow.
```


28.

```
kiit@BT-2105511:~/Desktop$ cat os1_2.txt | tr 'akhv' 'AKHV'  
I Am AAKAsH KumAr.  
I liVe in LuckNow.
```

29.

```
kiit@BT-2105511:~/Desktop$ echo Puppy is cute. >>os1_2.txt  
kiit@BT-2105511:~/Desktop$ sort os1_2.txt | uniq  
I am Aakash Kumar.  
I live in Lucknow.  
Puppy is cute.
```

30.

```
kiit@BT-2105511:~/Desktop$ od -t x1 os1_2.txt  
0000000 49 20 61 6d 20 41 61 6b 61 73 68 20 4b 75 6d 61  
0000020 72 2e 0a 49 20 6c 69 76 65 20 69 6e 20 4c 75 63  
0000040 6b 6e 6f 77 2e 0a 50 75 70 70 79 20 69 73 20 63  
0000060 75 74 65 2e 0a  
0000065
```

31.

```
kiit@BT-2105511:~/Desktop$ od -c os1_2.txt  
0000000 I      a  m      A  a  k  a  s  h      K  u  m  a  
0000020 r  .  \n I      l  i  v  e      i  n      L  u  c  
0000040 k  n  o  w  .  \n P  u  p  p  y      i  s      c  
0000060 u  t  e  .  \n  
0000065
```

32.

```
kiit@BT-2105511:~/Desktop$ sort os1_2.txt  
I am Aakash Kumar.  
I live in Lucknow.  
Puppy is cute.
```

33.

```
kiit@BT-2105511:~/Desktop$ gzip os1.txt
kiit@BT-2105511:~/Desktop$ ls
Documents  os1.txt.gz  os1_2.txt  os2  os2.txt  oslab
```

34.

```
kiit@BT-2105511:~/Desktop$ gunzip os1.txt
kiit@BT-2105511:~/Desktop$ ls
Documents  os1.txt  os1_2.txt  os2  os2.txt  oslab
```

35.

```
kiit@BT-2105511:~/Desktop$ find . -name "*.txt"
./os1_2.txt
./os2.txt
./os1.txt
```

36.

```
kiit@BT-2105511:~/Desktop$ locate os1.txt

Command 'locate' not found, but can be installed with:
sudo apt install mlocate
```

37.

```
kiit@BT-2105511:~/Desktop$ cal
      January 2023
Su Mo Tu We Th 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
```

38.

```

kiit@BT-2105511:~/Desktop$ gzip os1.txt
kiit@BT-2105511:~/Desktop$ ls
Documents  os1.txt.gz  os1_2.txt  os2  os2.txt  oslab
kiit@BT-2105511:~/Desktop$ zcat os1.txt
I am Aakash Kumar.
I live in Lucknow.

```

39.

```

kiit@BT-2105511:~/Desktop$ df

```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
/dev/sdb	263174212	2556188	247179868	2%	/
none	3903928	4	3903924	1%	/mnt/wsl
tools	209718268	85735604	123982664	41%	/init
none	3901844	0	3901844	0%	/dev
none	3903928	0	3903928	0%	/run
none	3903928	0	3903928	0%	/run/lock
none	3903928	0	3903928	0%	/run/shm
none	3903928	0	3903928	0%	/run/user
tmpfs	3903928	0	3903928	0%	/sys/fs/cgroup
drivers	209718268	85735604	123982664	41%	/usr/lib/wsl/drivers
lib	209718268	85735604	123982664	41%	/usr/lib/wsl/lib
drvfs	209718268	85735604	123982664	41%	/mnt/c
drvfs	289080316	2005884	287074432	1%	/mnt/d

40.

```

kiit@BT-2105511:~/Desktop$ mount
/dev/sdb on / type ext4 (rw,relatime,discard,errors=remount-ro,data=ordered)
none on /mnt/wsl type tmpfs (rw,relatime)
tools on /init type 9p (ro,relatime,dirsync,aname=tools;fmask=022,loose,access=client,msize=65536,trans=fd,rfd=7,wfd=7)
none on /dev type devtmpfs (rw,nosuid,relatime,size=3901844k,nr_inodes=975461,mode=755)
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,noatime)
proc on /proc type proc (rw,nosuid,nodev,noexec,noatime)
devpts on /dev/pts type devpts (rw,nosuid,noexec,noatime,gid=5,mode=620,ptmxmode=000)
none on /run type tmpfs (rw,nosuid,noexec,noatime,mode=755)
none on /run/lock type tmpfs (rw,nosuid,nodev,noexec,noatime)
none on /run/shm type tmpfs (rw,nosuid,nodev,noatime)
none on /run/user type tmpfs (rw,nosuid,nodev,noexec,noatime,mode=755)
binfmt_misc on /proc/sys/fs/binfmt_misc type binfmt_misc (rw,relatime)
tmpfs on /sys/fs/cgroup type tmpfs (rw,nosuid,nodev,noexec,relatime,mode=755)
cgroup2 on /sys/fs/cgroup/unified type cgroup2 (rw,nosuid,nodev,noexec,relatime,nsdelegate)
cgroup on /sys/fs/cgroup/cpuset type cgroup (rw,nosuid,nodev,noexec,relatime,cpuset)
cgroup on /sys/fs/cgroup/cpu type cgroup (rw,nosuid,nodev,noexec,relatime,cpu)
cgroup on /sys/fs/cgroup/cpuacct type cgroup (rw,nosuid,nodev,noexec,relatime,cpuacct)
cgroup on /sys/fs/cgroup/blkio type cgroup (rw,nosuid,nodev,noexec,relatime,blkio)
cgroup on /sys/fs/cgroup/memory type cgroup (rw,nosuid,nodev,noexec,relatime,memory)
cgroup on /sys/fs/cgroup/devices type cgroup (rw,nosuid,nodev,noexec,relatime,devices)
cgroup on /sys/fs/cgroup/freezer type cgroup (rw,nosuid,nodev,noexec,relatime,freezer)
cgroup on /sys/fs/cgroup/net_cls type cgroup (rw,nosuid,nodev,noexec,relatime,net_cls)
cgroup on /sys/fs/cgroup/perf_event type cgroup (rw,nosuid,nodev,noexec,relatime,perf_event)
cgroup on /sys/fs/cgroup/net_prio type cgroup (rw,nosuid,nodev,noexec,relatime,net_prio)
cgroup on /sys/fs/cgroup/hugetlb type cgroup (rw,nosuid,nodev,noexec,relatime,hugetlb)
cgroup on /sys/fs/cgroup/pids type cgroup (rw,nosuid,nodev,noexec,relatime,pids)
cgroup on /sys/fs/cgroup/rdma type cgroup (rw,nosuid,nodev,noexec,relatime,rdma)
drivers on /usr/lib/wsl/drivers type 9p (ro,nosuid,nodev,noatime,dirsync,aname=drivers;fmask=222,dmask=222,mmap,access=client,msize=65536,trans=fd,rfd=4,wfd=4)
lib on /usr/lib/wsl/lib type 9p (ro,nosuid,nodev,noatime,dirsync,aname=lib;fmask=222,dmask=222,mmap,access=client,msize=65536,trans=fd,rfd=4,wfd=4)
drvfs on /mnt/c type 9p (rw,noatime,dirsync,aname=drvfs;path=C:\;uid=1000;gid=1000;symlinkroot=/mnt/,mmap,access=client,msize=262144,trans=virtio)
drvfs on /mnt/d type 9p (rw,noatime,dirsync,aname=drvfs;path=D:\;uid=1000;gid=1000;symlinkroot=/mnt/,mmap,access=client,msize=262144,trans=virtio)

```

41.


```

kiit@BT-2105511:~/Desktop$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: bond0: <BROADCAST,MULTICAST,MASTER> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 92:51:ab:19:b3:58 brd ff:ff:ff:ff:ff:ff
3: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 4a:dd:6d:a7:c0:03 brd ff:ff:ff:ff:ff:ff
4: tunl0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
    link/ipip 0.0.0.0 brd 0.0.0.0
5: sit0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
    link/sit 0.0.0.0 brd 0.0.0.0
6: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:83:c4:87 brd ff:ff:ff:ff:ff:ff
    inet 172.23.87.54/20 brd 172.23.95.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:fe83:c487/64 scope link
        valid_lft forever preferred_lft forever

```

42.

```

kiit@BT-2105511:~/Desktop$ mail -s "Hello Sir" akash7633114@gmail.com

Command 'mail' not found, but can be installed with:

sudo apt install mailutils

```

43.

```

kiit@BT-2105511:~/Desktop$ ping myntra.com
PING myntra.com (23.33.245.22) 56(84) bytes of data.
64 bytes from a23-33-245-22.deploy.static.akamaitechnologies.com (23.33.245.22): icmp_seq=1 ttl=52 time=60.5 ms
64 bytes from a23-33-245-22.deploy.static.akamaitechnologies.com (23.33.245.22): icmp_seq=2 ttl=52 time=64.0 ms
64 bytes from a23-33-245-22.deploy.static.akamaitechnologies.com (23.33.245.22): icmp_seq=3 ttl=52 time=62.8 ms
64 bytes from a23-33-245-22.deploy.static.akamaitechnologies.com (23.33.245.22): icmp_seq=4 ttl=52 time=109 ms
64 bytes from a23-33-245-22.deploy.static.akamaitechnologies.com (23.33.245.22): icmp_seq=5 ttl=52 time=113 ms
64 bytes from a23-33-245-22.deploy.static.akamaitechnologies.com (23.33.245.22): icmp_seq=6 ttl=52 time=92.5 ms
64 bytes from a23-33-245-22.deploy.static.akamaitechnologies.com (23.33.245.22): icmp_seq=7 ttl=52 time=58.3 ms
^C
--- myntra.com ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6010ms
rtt min/avg/max/mdev = 58.274/79.918/112.679/22.210 ms

```

44.


```
kiit@BT-2105511:~/Desktop$ host myntra.com
myntra.com has address 23.33.245.22
myntra.com has IPv6 address 64:ff9b::1721:f516
myntra.com mail is handled by 10 alt1.aspmx.l.google.com.
myntra.com mail is handled by 5 eu-smtp-inbound-1.mimecast.com.
myntra.com mail is handled by 10 alt2.aspmx.l.google.com.
myntra.com mail is handled by 10 aspmx.l.google.com.
myntra.com mail is handled by 5 eu-smtp-inbound-2.mimecast.com.
myntra.com mail is handled by 15 aspmx2.googlemail.com.
myntra.com mail is handled by 20 aspmx3.googlemail.com.
```

45.

```
kiit@BT-2105511:~/Desktop$ more os1_2.txt
I am Aakash Kumar.
I live in Lucknow.
Puppy is cute.
```

```
kiit@BT-2105511:~/Desktop$ less os1_2.txt
```

```
kiit@BT-2105511: ~/Desktop
I am Aakash Kumar.
I live in Lucknow.
Puppy is cute.
```

46.

```
kiit@BT-2105511:~/Desktop$ rmdir oslab
kiit@BT-2105511:~/Desktop$ cd oslab
-bash: cd: oslab: No such file or directory
```

47.

```
kiit@BT-2105511:~/Desktop$ nano
```

```
kit@BT-2105511: ~/Desktop
Main nano help text

The nano editor is designed to emulate the functionality and ease-of-use
of the UW Pico text editor. There are four main sections of the editor.
The top line shows the program version, the current filename being
edited, and whether or not the file has been modified. Next is the main
editor window showing the file being edited. The status line is the
third line from the bottom and shows important messages. The bottom two
lines show the most commonly used shortcuts in the editor.

Shortcuts are written as follows: Control-key sequences are notated with
a '^' and can be entered either by using the Ctrl key or pressing the Esc
key twice. Meta-key sequences are notated with 'M-' and can be entered
using either the Alt, Cmd, or Esc key, depending on your keyboard setup.
Also, pressing Esc twice and then typing a three-digit decimal number
from 000 to 255 will enter the character with the corresponding value.
The following keystrokes are available in the main editor window.
Alternative keys are shown in parentheses:

^G      (F1)      Display this help text
^X      (F2)      Close the current buffer / Exit from nano
^O      (F3)      Write the current buffer (or the marked region) to disk
^R      (Ins)     Insert another file into current buffer (or into new buffer)

^W      (F6)      Search forward for a string or a regular expression
^_      (M-R)     Replace a string or a regular expression
^K      (F9)      Cut current line (or marked region) and store it in cutbuffer
^U      (F10)     Paste the contents of cutbuffer at current cursor position

^J      (F4)      Justify the current paragraph
^T      (F12)     Invoke the spell checker, if available

^C      (F11)     Display the position of the cursor
^_      (M-G)     Go to line and column number
```

48.

```
kit@BT-2105511: ~/Desktop
MKDIR(1) User Commands MKDIR(1)

NAME
    mkdir - make directories

SYNOPSIS
    mkdir [OPTION]... DIRECTORY...

DESCRIPTION
    Create the DIRECTORY(ies), if they do not already exist.

    Mandatory arguments to long options are mandatory for short options too.

    -m, --mode=MODE
        set file mode (as in chmod), not a=rwx - umask

    -p, --parents
        no error if existing, make parent directories as needed

    -v, --verbose
        print a message for each created directory

    -Z
        set SELinux security context of each created directory to the default type

    --context[=CTX]
        like -Z, or if CTX is specified then set the SELinux or SMACK security context to CTX

    --help display this help and exit

    --version
        output version information and exit

AUTHOR
    Manual page mkdir(1) line 1 (press h for help or q to quit)
```

49.

```
kiit@BT-2105511:~/Desktop$ time
real    0m0.000s
user    0m0.000s
sys     0m0.000s
kiit@BT-2105511:~/Desktop$ cal
      January 2023
Su Mo Tu We Th 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
kiit@BT-2105511:~/Desktop$ clear
```

```
kiit@BT-2105511:~/Desktop$
```

50.

```
kiit@BT-2105511:~/Desktop$ exit
```