

OS -Lab Exercise 1

Date:

```
root@LAPTOP-FHHEGJQ5:~# date
Thu Dec 29 08:57:35 IST 2022
```

Cal:

```
root@LAPTOP-FHHEGJQ5:~# cal
    December 2022
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
```

Echo:

```
root@LAPTOP-FHHEGJQ5:~# echo ajay
ajay
```

Ls:

```
root@LAPTOP-FHHEGJQ5:~# ls -l
total 28
drwxr-xr-x 1 root root  512 Sep 13  2021 Ajay
-rwxr-xr-x 1 root root 16704 Nov  5 01:01 a.out
-rw-r--r-- 1 root root  261 Nov  5 01:01 bisquit.c
drwxr-xr-x 1 root root  512 Sep 28 15:03 dsa6
-rw-r--r-- 1 root root  817 Jun 18  2022 hw.c
-rw-r--r-- 1 root root  375 Jul 25 15:09 key.c
-rw----- 1 root root    6 Nov 24  2021 nano.save
-rw-r--r-- 1 root root 1398 Jan 15  2022 opengl.c
-rw-r--r-- 1 root root  166 Oct 13  2021 pattern.c
-rw-r--r-- 1 root root   71 Aug 24 19:32 test.c
```

Lp: line printer

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Man :

```
STDIO(3)                                Linux Programmer's Manual                                STDIO(3)

NAME
    stdio - standard input/output library functions

SYNOPSIS
    #include <stdio.h>

    FILE *stdin;
    FILE *stdout;
    FILE *stderr;

DESCRIPTION
    The standard I/O library provides a simple and efficient buffered stream I/O interface. Input and output is mapped into logical data streams and the physical I/O characteristics are concealed. The functions and macros are listed below; more information is available from the individual man pages.

    A stream is associated with an external file (which may be a physical device) by opening a file, which may involve creating a new file. Creating an existing file causes its former contents to be discarded. If a file can support positioning requests (such as a disk file, as opposed to a terminal), then a file position indicator associated with the stream is positioned at the start of the file (byte zero), unless the file is opened with append mode. If append mode is used, it is unspecified whether the position indicator will be placed at the start or the end of the file. The position indicator is maintained by subsequent reads, writes and positioning requests. All input occurs as if the characters were read by successive calls to the fgetc(3) function; all output takes place as if all characters were written by successive calls to the fputc(3) function.

    A file is disassociated from a stream by closing the file. Output streams are flushed (any unwritten buffer contents are transferred to the host environment) before the stream is disassociated from the file. The value of a pointer to a FILE object is indeterminate after a file is closed (garbage).
```

Who/whoami:

```
root@LAPTOP-FHHEGJQ5:~# who
root@LAPTOP-FHHEGJQ5:~# whoami
root
```

Uptime:

```
root@LAPTOP-FHHEGJQ5:~# uptime
09:21:12 up 23 min,  0 users,  load average: 0.52, 0.58, 0.59
```

Uname:

```
root@LAPTOP-FHHEGJQ5:~# uname
Linux
```

Hostname :

```
root@LAPTOP-FHHEGJQ5:~# hostname
LAPTOP-FHHEGJQ5
```

Bc:(basic calculator)

```
root@LAPTOP-FHHEGJQ5:~# bc
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type `warranty'.
readline: /etc/inputrc: line 69: number: unknown variable name
1*3
3
34.53*323.424
11167.830
```

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File Handling Commands:

Cat:

```
d diam vel. Nulla malesuada pellentesque elit eget gravida cum sociis natoque penatibus. Facilisis sed odio morbi quis
omodo. Ut sem viverra aliquet eget sit amet tellus cras. Condimentum mattis pellentesque id nibh tortor id aliquet. A
ondimentum vitae sapien pellentesque habitant morbi.

Consectetur a erat nam at. Sit amet est placerat in egestas. Volutpat diam ut venenatis tellus in metus vulputate. Ali
am faucibus purus in massa tempor. Et odio pellentesque diam volutpat commodo sed egestas. Lectus proin nibh nisl cond
entum. Sed arcu non odio euismod lacinia. Tortor vitae purus faucibus ornare suspendisse sed nisi lacus sed. Arcu odio
t sem nulla pharetra diam sit. Vestibulum sed arcu non odio. Sodales ut eu sem integer.

Proin fermentum leo vel orci porta non pulvinar neque laoreet. Lacus luctus accumsan tortor posuere, Aenean pharetra m
na ac placerat vestibulum. Bibendum enim facilisis gravida neque convallis. Ultrices gravida dictum fusce ut placerat
ci nulla. Integer quis auctor elit sed vulputate mi sit amet mauris. Pellentesque pulvinar pellentesque habitant morbi
ristique senectus et netus et. Suspendisse sed nisi lacus sed viverra tellus in hac. In dictum non consectetur a erat
m at lectus urna. At volutpat diam ut venenatis tellus in metus vulputate eu. Tincidunt augue interdum velit euismod i
pellentesque massa. Tellus molestie nunc non blandit massa enim nec dui nunc. Malesuada bibendum arcu vitae elementum
rabitur vitae nunc sed.

Mauris a diam maecenas sed enim ut sem viverra aliquet. Neque viverra justo nec ultrices dui. Est placerat in egestas
at imperdiet sed. Tortor at auctor urna nunc id. Dis parturient montes nascetur ridiculus mus mauris. Interdum velit l
reet id donec ultrices tincidunt arcu non. Risus in hendrerit gravida rutrum quisque non. Enim ut sem viverra aliquet
et sit amet tellus. Lobortis feugiat vivamus at augue. Mi in nulla posuere sollicitudin aliquam ultrices.

Quisque non tellus orci ac. Eros in cursus turpis massa tincidunt dui. Sagittis id consectetur purus ut faucibus pulvi
r. Sit amet purus gravida quis. Libero nunc consequat interdum varius sit. Scelerisque varius morbi enim nunc. Vitae t
tor condimentum lacinia quis vel eros. Sollicitudin nibh sit amet commodo nulla. Ullamcorper morbi tincidunt ornare ma
a eget egestas purus viverra accumsan. Risus commodo viverra maecenas accumsan lacus vel facilisis volutpat. Sed felis
get velit aliquet sagittis id consectetur purus. Luctus accumsan tortor posuere ac ut consequat. Arcu non sodales neque
sodales. Lacus vel facilisis volutpat est velit egestas dui. Rhoncus dolor purus non enim praesent. Quis risus sed vul
```

2.grep:

```
Report bugs to: bug-grep@gnu.org
GNU grep home page: <http://www.gnu.org/software/grep/>
General help using GNU software: <https://www.gnu.org/gethelp/>
root@LAPTOP-FHHEGJQ5:~# grep -c "lorem" test.txt
1
root@LAPTOP-FHHEGJQ5:~# grep -l "lorem"
^C
root@LAPTOP-FHHEGJQ5:~# grep -l "lorem" -l
^C
root@LAPTOP-FHHEGJQ5:~# grep -l "lorem" *
grep: Ajay: Is a directory
grep: dsa6: Is a directory
test.txt
```

3. rm:

```
root@LAPTOP-FHHEGJQ5:~# touch dummy.txt
root@LAPTOP-FHHEGJQ5:~# rm dummy.txt
```

4.touch

```
root@LAPTOP-FHHEGJQ5:~# touch dummy.txt
```

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5.cp

```
root@LAPTOP-FHHEGJQ5:~# cp test.txt mnt
root@LAPTOP-FHHEGJQ5:~#
```

6.mv

```
root@LAPTOP-FHHEGJQ5:~# mv test.txt mnt
```

7.cut

```
root@LAPTOP-FHHEGJQ5:/# cut -c 1 demo.c
#

i
{

}

}
```

8.head

```
root@LAPTOP-FHHEGJQ5:/# head -c 10 demo.c
#include <root@LAPTOP-FHHEGJQ5:/#
```

9.tail

```
root@LAPTOP-FHHEGJQ5:/# tail -c 12 demo.c
return 0;
}
```

10.chmod

```
root@LAPTOP-FHHEGJQ5:/# chmod u=r demo.c
root@LAPTOP-FHHEGJQ5:/#
```

11.wc(word count s);

```
root@LAPTOP-FHHEGJQ5:/# wc -w demo.c
61 demo.c
```