

date : showed current date.

```
File Actions Edit View Help
(tofayel_ kali)-[~]
$ whoami
tofayel_

(tofayel_ kali)-[~]
$ pwd
/home/tofayel_

(tofayel_ kali)-[~]
$ date
Tue Jan 28 09:42:16 AM EST 2025

(tofayel_ kali)-[~]
$ date "+%A, %B %d, %Y"
Tuesday, January 28, 2025

(tofayel_ kali)-[~]
$ date +%D
01/28/25

(tofayel_ kali)-[~]
$ date +%F
2025-01-28
```

ls -a : show every items

```
tofoyel_@kali: ~  
File Actions Edit View Help  
(tofoyel_@kali)-[~]  
$ date  
Tue Jan 28 04:56:54 AM EST 2025  
(tofoyel_@kali)-[~]  
$ ls -a  
.  
..  
.bash_history  
.bash_logout  
.bashrc  
.bashrc.original  
.cache  
.config  
.Desktop  
.dmrc  
.Documents  
.Downloads  
.face  
.face.icon  
.gnupg  
.ICEauthority  
.java  
.local  
.mozilla  
.Music  
.Pictures  
.profile  
.Public  
.sudo_as_admin_successful  
Templates  
Videos  
.Xauthority  
.xsession-errors  
.xsession-errors.old  
.zshrc
```

ls -a -F -1 : will show in column format

```
(tofoyel_@kali)-[~]  
$ ls -a -F -1  
./  
../  
.bash_history  
.bash_logout  
.bashrc  
.bashrc.original  
.cache/  
.config/  
Desktop/  
.dmrc  
Documents/  
Downloads/  
.face  
.face.icon@  
.gnupg/  
.ICEauthority  
.java/  
.local/  
.mozilla/  
Music/  
Pictures/
```

host : all information in host

```

(tofayel_@kali)-[~]
$ host
Usage: host [-aCdilrTvVw] [-c class] [-N ndots] [-t type] [-W time]
          [-R number] [-m flag] [-p port] hostname [server]
  -a is equivalent to -v -t ANY
  -A is like -a but omits RRSIG, NSEC, NSEC3
  -c specifies query class for non-IN data
  -C compares SOA records on authoritative nameservers
  -d is equivalent to -v
  -l lists all hosts in a domain, using AXFR
  -m set memory debugging flag (trace|record|usage)
  -N changes the number of dots allowed before root lookup is done
  -p specifies the port on the server to query
  -r disables recursive processing
  -R specifies number of retries for UDP packets
  -s a SERVFAIL response should stop query
  -t specifies the query type
  -T enables TCP/IP mode
  -U enables UDP mode
  -v enables verbose output
  -V print version number and exit
  -w specifies to wait forever for a reply
  -W specifies how long to wait for a reply
  -4 use IPv4 query transport only
  -6 use IPv6 query transport only
(tofayel_@kali)-[~]

```

cat : all document shows in file

cat -n : will shows Every line

cat -b : will skip null line

```

tofayel_@kali: ~
File Actions Edit View Help
(tofayel_@kali)-[~]
$ cat x.txt
hi my is Topu bhuyan
I am from Dhaka
Sonargaon university CSE deperment
8th semeset running

this course name Operating System

Course Teacher Name < Khadija Islam

(tofayel_@kali)-[~]
$ cat -n x.txt
 1 hi my is Topu bhuyan
 2 I am from Dhaka
 3 Sonargaon university CSE deperment
 4 8th semeset running
 5
 6 this course name Operating System
 7
 8 Course Teacher Name < Khadija Islam

(tofayel_@kali)-[~]
$ cat -b x.txt
 1 hi my is Topu bhuyan
 2 I am from Dhaka
 3 Sonargaon university CSE deperment
 4 8th semeset running

 5 this course name Operating System

 6 Course Teacher Name < Khadija Islam

```

mv : rename file or change extension

```
(tofayel_@kali)-[~]  
$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos y.txt  
  
(tofayel_@kali)-[~]  
$ mv y.txt t.cpp  
  
(tofayel_@kali)-[~]  
$ ls  
Desktop Documents Downloads Music Pictures Public t.cpp Templates Videos  
  
(tofayel_@kali)-[~]  
$
```

wc : count line, sentence & word

wc -l : count line

wc -c : count word

```
(tofayel_@kali)-[~]  
$ wc t.cpp  
8 27 166 t.cpp  
  
(tofayel_@kali)-[~]  
$ wc -l t.cpp  
8 t.cpp  
  
(tofayel_@kali)-[~]  
$ wc -c t.cpp  
166 t.cpp  
  
(tofayel_@kali)-[~]  
$
```

rm : delete file

rm -i : Will ask for allow

```

(tofayel_@kali)-[~]
└─$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos

(tofayel_@kali)-[~]
└─$ rm -i t.cpp
rm: cannot remove 't.cpp': No such file or directory

(tofayel_@kali)-[~]
└─$ touch t.cpp

(tofayel_@kali)-[~]
└─$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  t.cpp  Templates  Videos

(tofayel_@kali)-[~]
└─$ rm -i t.cpp
rm: remove regular empty file 't.cpp'? y

(tofayel_@kali)-[~]
└─$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos

```

cp : file copy any folder

```

(tofayel_@kali)-[~]
└─$ ls
Desktop  Documents  Downloads  Ex  Ex2  Music  Pictures  Public  t.cpp  Templates  Videos

(tofayel_@kali)-[~]
└─$ cd Ex2

(tofayel_@kali)-[~/Ex2]
└─$ cd

(tofayel_@kali)-[~]
└─$ cp t.cpp Ex2

(tofayel_@kali)-[~]
└─$ cd Ex2

(tofayel_@kali)-[~/Ex2]
└─$ ls
t.cpp

(tofayel_@kali)-[~/Ex2]
└─$

```

mkdir : create directory (Folder)

touch : create file Ex-> .cpp .txt .py .cs .HTML .js etc...

```
(tofayel_@ kali)-[~]
$ mkdir Tofayel_ahamd

(tofayel_@ kali)-[~]
$ cd Tofayel_ahamd

(tofayel_@ kali)-[~/Tofayel_ahamd]
$ touch x.cpp

(tofayel_@ kali)-[~/Tofayel_ahamd]
$ ls
x.cpp

(tofayel_@ kali)-[~/Tofayel_ahamd]
$ cd

(tofayel_@ kali)-[~]
$ ls
Desktop Downloads Ex2 Pictures t.cpp Tofayel_ahamd
Documents Ex Music Public Templates Videos
```

nano : will open file then some text...

cat : show All text in file

```
(tofayel_@ kali)-[~/Tofayel_ahamd]
$ nano x.cpp

(tofayel_@ kali)-[~/Tofayel_ahamd]
$ cat x.cpp
#include <bits/stdc++.h>
using namespace std;

int main () {
    cout <<"Hello Topu";

    return 0;
}
```

cat > : single line read

cat >> : all line read

```
(tofayel_@ kali) - [~/Tofayel_ahamd]
$ cat > x.cpp
this is new line
^C

(tofayel_@ kali) - [~/Tofayel_ahamd]
$ cat x.cpp
this is new line

(tofayel_@ kali) - [~/Tofayel_ahamd]
$ cat >> x.cpp
this is seceond line
^C

(tofayel_@ kali) - [~/Tofayel_ahamd]
$ cat x.cpp
this is new line
this is seceond line

(tofayel_@ kali) - [~/Tofayel_ahamd]
$
```

pwd : show file path

```
(tofayel_@ kali) - [~/Tofayel_ahamd/topu1/topu2]
$ pwd
/home/tofayel_/Tofayel_ahamd/topu1/topu2
```

cd : Changes the location of the file

```
(tofayel_@ kali)-[~/Tofayel_ahamd]
$ cd ..

(tofayel_@ kali)-[~]
$ cd Tofayel_ahamd

(tofayel_@ kali)-[~/Tofayel_ahamd]
$ cd topu1/topu2

(tofayel_@ kali)-[~/Tofayel_ahamd/topu1/topu2]
$ cd ..

(tofayel_@ kali)-[~/Tofayel_ahamd/topu1]
$ cd ..

(tofayel_@ kali)-[~/Tofayel_ahamd]
$ cd ..

(tofayel_@ kali)-[~]
$
```

root

cp -r : copy dir (folder) not file .

```
(tofayel_@ kali)-[~/Tofayel_ahamd]
$ ls
1.cpp topu1 topu_x 1.cpp x.cpp x_topu y_topu

(tofayel_@ kali)-[~/Tofayel_ahamd]
$ cp -r topu_x topu1

(tofayel_@ kali)-[~/Tofayel_ahamd]
$ cd topu1

(tofayel_@ kali)-[~/Tofayel_ahamd/topu1]
$ ls
topu2 topu_x
```

mv : for move



```
(tofayel_@ kali) - [~/Tofayel_ahamd]
$ ls
1.cpp  topu1  topu_x  x.cpp  x.pp  x_topu  y_topu

(tofayel_@ kali) - [~/Tofayel_ahamd]
$ mv y_topu topu1

(tofayel_@ kali) - [~/Tofayel_ahamd]
$ topu1
topu1: command not found

(tofayel_@ kali) - [~/Tofayel_ahamd]
$ cd topu1

(tofayel_@ kali) - [~/Tofayel_ahamd/topu1]
$ ls
topu2  topu_x  y_topu

(tofayel_@ kali) - [~/Tofayel_ahamd/topu1]
$
```

rmkdir : single dir remove

rm -r : all file dir remove (more dr romove)

```
(tofayel_@ kali) - [~/Tofayel_ahamd]
$ ls
1.cpp new25 topu1 topu_x x.cpp x.pp x_topu
```

```
(tofayel_@ kali) - [~/Tofayel_ahamd]
$ rmdir new25
```

```
(tofayel_@ kali) - [~/Tofayel_ahamd]
$ ls
1.cpp topu1 topu_x x.cpp x.pp x_topu
```

```
(tofayel_@ kali) - [~/Tofayel_ahamd]
$ ls
1.cpp topu topu_x x.cpp x.pp x_topu
```

```
(tofayel_@ kali) - [~/Tofayel_ahamd]
$ rm -r topu_x
```

```
(tofayel_@ kali) - [~/Tofayel_ahamd]
$ ls
1.cpp topu1 x.cpp x.pp x_topu
```

```
(tofayel_@ kali) - [~/Tofayel_ahamd]
$
```