21 May 2022 10:46 AM

What is happening behind the scenes when we execute a command:

linux has 3 basics Standard Streams:

Input

- (Standard Input) 0
- (2) Stolout (Standard output) 1 (3) Stoler (Standard error) 2 ] -> Output

They have only one job is to transfer data (fext). Input (Output can be in any form

## Output Evample:

- (i) Terminal Window
- 2) File
- (3) Piper -> redirects

G Output

### Standard Output:

It's generally given through '& symbol.

\* To redirect your output to somewhere then you simply add

(greater than symbol (>)".

#### Gample.

If you want to send the output in a file, but don't want to desplay it.

```
rizon@rizon:~$ ls
bootcamp Documents Music Public Templates
Desktop Downloads Pictures snap Videos
rizon@rizon:~$ ls > output.txt
rizon@rizon:~$
```

The output is no more visible.

2 But c if you do 'Is'
output txt is present in the home directory

```
rizon@rizon:~$ ls
bootcamp Downloads Pictures Templates
Desktop Music Public Videos
Documents output.txt snap
rizon@rizon:~$
```

Checking the content of output tet, cat output txt

```
rizon@rizon:~$ cat output.txt
bootcamp
Desktop
Documents
Downloads
Music
output.txt
Pictures
Public
snap
Templates
Videos
rizon@rizon:~$
```

It's display all the directories that were supposed to be in this file along with the output txt.

=> Now, it you go into any folder and do the same thing. (output tot)

```
rizon@rizon:-$ cd Downloads/
rizon@rizon:-\Downloads$ ls > \( \)output.txt
rizon@rizon:-\Downloads$ cd ..
rizon@rizon:-\$ cat output.txt
firefox.tmp
```

Now, you see that only few files are present it didn't retain the other file.

=) Now the problem statement is to get all the output in one single file without boosing the output of the previous command.

To Do that we lee double greeker than symbol '22'.

```
rizon@rizon:~$ ls >> ~/output.txt
rizon@rizon:~$ cat output.txt
firefox.tmp
bootcamp
Desktop
Documents
Downloads
Music
output.txt
Pictures
Public
snap
Templates
Videos
rizon@rizon:~$
```

# Standard Input:

It's generally given through < symbol.

## Standard Evror:

Instead of Is command, you gave Ig command it show error but the command doesn't save in the Ig, output tyt, as it's a standard error, as it just cannot and some standard error with simple greater than symbol.

->> No content is printed here

To tackle that just add 'z' before 'z' symbol

lg 2 2 output txt

Now the question is very 2' not someother nos?

The remon is standard error is always denoted by (21.

The content is printed now.

Now if you don't cont console your evnor in the display.

like for e.g. Ig command will give error message

To avoid that [Ig 27 (dev [null this will not display
any error message. It just become null.

```
rizon@rizon:-$ lg
lg: command not found
rizon@rizon:-$ rm output.txt
rizon@rizon:-$ ls
bootcamp Documents Music Public Templates
Desktop Downloads Pictures snap Videos
rizon@rizon:-$ lg
lg: command not found
rizon@rizon:-$ lg 2> /dev/null
rizon@rizon:-$
```