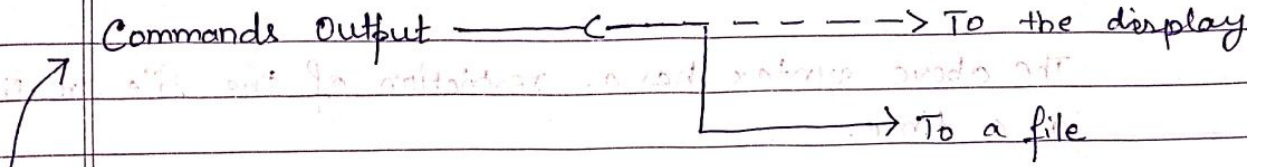


Mission Name: Redirection and Pipelines



output Redirection → we will direct the output from screen to files.

* "echo" is an in-built command that is used to print on screen whatever is passed to it as input.

* Output of a command can be redirected to the ~~out~~ file by using ">".

Eg:- echo "Hello" > hello.txt
 >> cat hello.txt
 Hello

* If we will again use ">" on hello.txt, its previous content will be overwritten. We can overcome this issue.

Eg:- `grep -in "math" * > /home/dq/math_data`

* So, to overcome the issue, we can use ">>" redirection instead of ">" because it will append the content at the end of file, with previous contents.

Eg:- `grep -hi "Math" * >> /home/dg/math-dataset`

* Creating Empty files with echo:-

echo "n" > filename

↑ Don't append a "\n"

- * Creating empty files with output redirection:-

" > filename "

The above syntax has a restriction of one file creation at a time.

- * To create one or more empty files at a time, we can use "touch" command.

Eg:- touch file1 file2 file n

- * What touch does is it updates the timestamp of an already existing file and if not then creates a new file.

- * Pipeline:-

Cutting off the intermediate step of writing to a file and connecting the output of a command to the input of another command.

- * We can connect the output of <command-1> to the input of <command-2> by using "&|" pipe operator responsible for pipelining.

Eg:- <command-1> | <command-2>

Eg:- cut -d"," -f2,5 example.csv | grep "^0"

→ Filter output of this and print rows starting with 0.

- * sort -u * | wc -l

↑ show only no. of lines.

- * /dev/null → Null Device → Used to discard data.