Input Output and Redirection

What is File Descriptor?

In Unix and related computer operating systems,

a file descriptor (FD) is an abstract indicator used to access a file or other input/output resource, such as a pipe or network socket.

File descriptors form part of the POSIX application programming interface.

Input/Output Types

I/O Name	Abbreviation	File Descriptor
Standard Input	stdin	0
Standard Output	stdout	1
Standard Error	stderr	2

Redirection

- > Redirects standard output to a file (Overwrite existing content)
- >> Redirects standard output to a file (Append to any existing content)
- Redirects input from a file to a command

Input/Output Examples

Examples:

ls -l > file.txt overwriting)

- this will put Output of ls command to file.txt (with

2 > /dev/null

- this will put any error happens to the null place

sort < file.txt

- this will take the input from the file.txt for the sort command