

* Agenda - piping

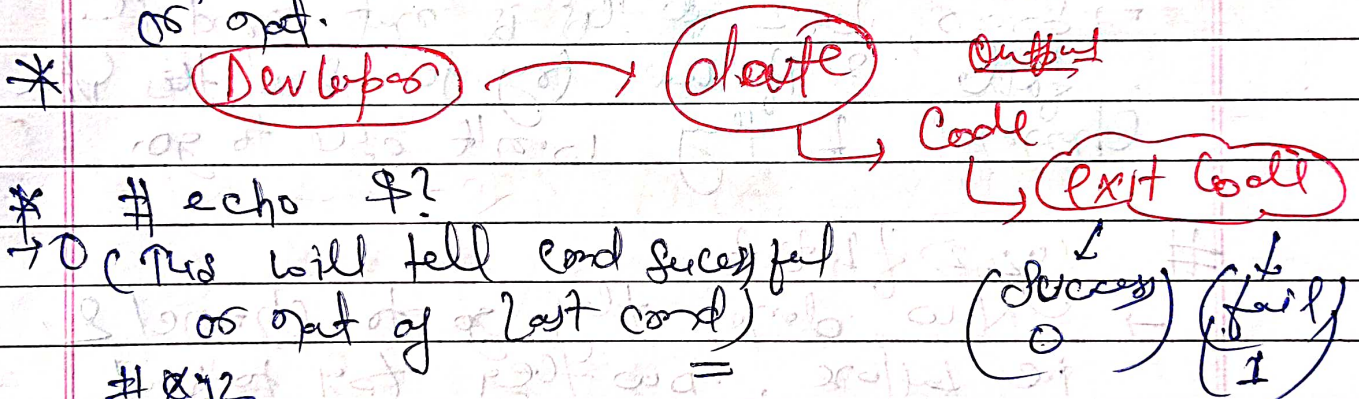
* How to prove the output of cmd is right or not?

date

cat

* If we run any cmd how we find this cmd run successfully or not right.

* Developer know right answer this output is correct or not.



* # echo \$?

→ This will tell cmd successful or not of last cmd

xy2

echo \$?

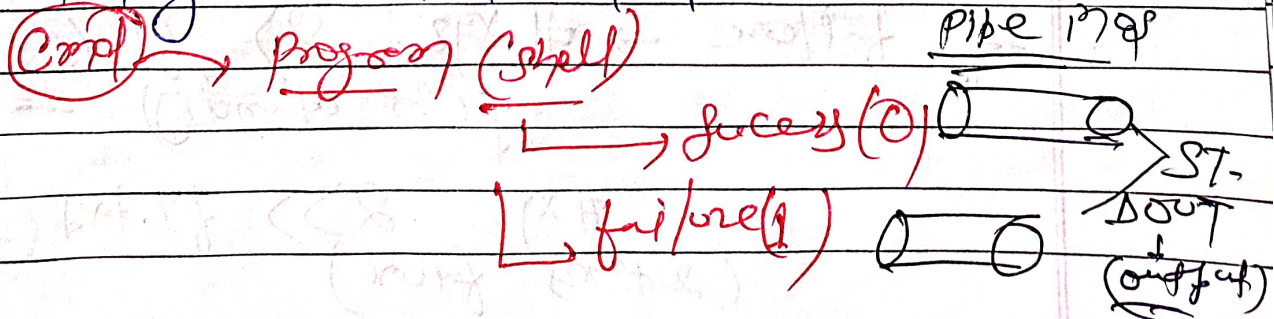
→ 1

* # date
date > f.txt
cat f.txt

xy2 > f.txt
cat f.txt

(But they not send date)

* Our bash shell, how smart they know which cmd is successful or not if they successful then they redirect the data.



* Shell send the data if we run `# date` cmd, through pipe/ channels to the screen or loc^l.

* If failure they send through channel 2 to the screen.

→ want to send the output to other loc^l.

`# date > f1.txt` → same thing

`# date 1 > f1.txt`

(Appending through channel 1)

* `# xyz 1 > f1.txt`

→ Error, because this is not a cmd and they fail & if we try to send this via channel 1 they won't be able to go.

`# xyz > f1.txt`

→ Now, since they go to channel 2, i.e. failure, now they try to send this via channel 2 they are able to send.

`# cat f1.txt`

* You have to think if you run any cmd they are going to give successful output or they are going to fail (channel - 2)

If successful → `# date > f1.txt`

If failure → `# xyz 2 > f1.txt`
(for appending) =

`# xyz 2 >> f1.txt`
(2 times failure)

* Symbols till now-

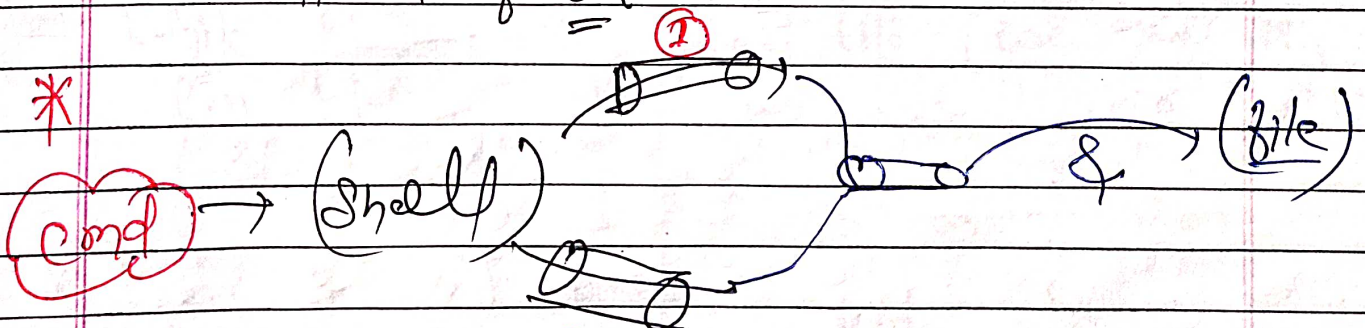
<u>I/O</u>	<u>File Descriptors</u>
Output $>$ STDOUT $>>$ (output)	0 \rightarrow STDIN 1 \rightarrow STDOUT 2 \rightarrow STDERR
Input $<$ STDIN	Output \rightarrow 2 } Error STDERR 2 } }

* If we put #date and output to channel 2

#date
#date 2) f1.txt
 \rightarrow They show on screen, won't go to diff channel.

cat f1.txt

#date 1) f1.txt
cat f1.txt



\rightarrow we don't know we are running any cmd that is right or wrong, so we can mix-up both the pipe, & the send file output by (&) symbol.

date > f.txt

xyz > f.txt

date >> f.txt
=

* Now, they are going to be changed.

4.0

(3/10/17)

⇒ Send Output flow output on screen & as well of file. (Both way)