exit status error codes and their exit values

echo $? = 0 means the last run command was successful

echo $? = 1 cat: doesnotexist.txt: No such file or directory

echo $? = 1 - Catchall for general errors

echo $? = 2 - Misuse of shell builtins (according to Bash documentation)

echo $? = 126 - Command invoked cannot execute

echo $? = 127 - “command not found”

echo $? = 128 - Invalid argument to exit

echo $? = 128+n - Fatal error signal “n”

echo $? = 130 - Script terminated by Control-C

echo $? = 255\\* - Exit status out of range

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shell exit status codes:

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logic in linux:

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AND logic: &&

Use to run two commands at a time but if one of the commands fails the whole statement is invalid

for example

$ mkdir test5 && cd test5 && echo "thank you" >> etech.log

OR logic: ||

Use to run two commands that can be mutually exclusive, If one fails then the other can still run

for example

$ ls || cat /etc/passwd

cascade linux commands:

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output redirection: >

This method of moving data will override the initial content of destination file

output append: >>

This will add the moved data to the initial content wihout deletion

(command1)$(command2): here, command2 runs first then the output is fed as input to command1

for example:

echo "$(logname)" >> tech.log

command1 | command2 : here, command1 runs first and the output is fed as input to command2

for example:

cat -n /etc/passwd | sed -n -e '20,25p'