test command

- > test command is used to validate/judge conditions
- ➤ What is a condition ?
 - > Example: -e file
- > Syntax:
 - > test condition or [condition] or [condition]
 - > [[]] is the latest and advanced usage of test command
 - > test -e file
 - > We can combine test commands with logical AND, OR operators using this concept
 - > If file exist then test command return or exits with status as zero(true) else non-zero(false)
- > We have two types of operators to create conditions
 - > File Test Operators
 - Comparison Operators

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File Test Operators to create conditions

test -f file or [[-f file]] → To validate file or path is a file or not
test -d file or [[-d file]] → To validate file or path is a directory or not
test -e file or [[-e file]] → To validate file exist or not
test -s file or [[-s file]] → To validate file size is greater than zero or not
test -r file or [[-r file]] → To validate file is having read permissions for the current user
test -w file or [[-w file]] → To validate file is having write permissions for the current user
test -x file or [[-x file]] → To validate file is having execution permissions for the current user

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Comparison Operators to create conditions

> String Comparison:

- > test -z string or [[-z string]] -> To validate string is null or not
- > test -n string or [[-n string]] > To validate string is not null or not
- - \triangleright test str1 = str2 or [[str1 = str2]]
- > test str1 != str2 or [[str1 != str2]] > To validate two strings are not equal or not

► <u>Integer Numbers Comparison:</u>

- > test num1 -eq num2 or [[num1 -eq num2]]
- > test num1 -ne num2 or [[num1 -ne num2]]
- > test num1 -lt num2 or [[num1 -lt num2]]
- > test num1 -le num2 or [[num1 -le num2]]
- > test num1 -gt num2 or [[num1 -gt num2]]
- > test num1 -ge num2 or [[num1 -ge num2]]

- → To validate two numbers or equal or not
- → To validate two numbers or not equal or not
- → To validate num1 is less than num2 or not
- → To validate num1 is less than or equal to num2
- → To validate num1 is greater than num2 or not
- → To validate num1 is greater than or equal to num2

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