Reger & Pext Manipulation

& provd, -> Present working directory. eg: /home/ubuntus

\$ echo "Hello World" => Displays "Hello World" as output the paint statement.

> 4 echo "Hello World" > peanut. txt.

Redirect Contput

.This command will redirect the joutput to the given file. (If the file does not exist, it will create file with the given name)

> & cat peanut. txt => Displays the montents of tile

> secho "Hello Farth" > peanut.txt => This command will overwrite the contents of file.

Instead of overwriting if a want to add the line to ensiting content: ensisting content:

-> decho "Hello Jupiter" >> Peanut.txt

Output: Hello Earth

Append command.

Taking Inputs: 1 to bestevi j' see use p

strate who

std in stdout

This means take the contents of peanut tot file as input and redirect the content to sample tat.

| 100-D: Stdout - 1 1 115 | : Janannan al! |
|--|--------------------------|
| stdin-0; Stdout - 1; Std Error-2; (4) (2) (2) | |
| | |
| | aver the pub |
| StdError: Redirects error nursage to a file | |
| eg: \$ ls /fake/din > file1.txt | Act of the |
| (Here no such directory is present) | stiltee ne |
| output! Is cannot access fake/dir: N | o such file or directory |
| browned by Poly distant this error in | eugae to tile as |
| To redirect this error man conten | t Stderror (2) |
| eg: & ls /jake/dir 2> file1-txt= The enos | s used with comme |
| g: & ls / jake/dir 2> file1. txt => The error will be de cat file1. txt output: - ls cannot access / fake/dir': N | moved to file! txt |
| output: - le cannot access /fake/dir': N | to such file on |
| on own variable with value | directory. |
| was with value | |
| /dev/null => This is like a nothing file. N | othing can be |
| env => You should see name = "Varehini berota | thing & c |
| If user decides not to view the output to store the output, /dev/null can be us | t and also not |
| 18. nutout /dev/null can be us | sed. |
| to store the origina, | > \$ nav |
| eg: & ls /Jake/din 2>/dev/null | cutput: |
| | -> b echic |
| a to nothing ness: | output |
| in the state of th | 10 delete de |
| Pipe command (1): X | |
| Taking output of one command and | passing it as |
| Pipe command (1): X. Taking output of one command and input to another command. | 39 p c |
| 1 locc water we | V researched al |
| | |
| Separate) | editor window |
| dolder know /home directory | |
| List out all files/ folders from /home directory folders from /home directory Command will be 2 | 7002 35 1 1 |
| Command will be 2 | The state of |
| opened in separate wi | raow. |

tee command: This command will display the output and also saves the output in a file > \$ 1s 1>k out txt > This command will only saw the I ist outs the L. passes the output of ls command as input to next command. es & les / fater / din 2> filed text of the experiment Envisonment variables Perints all the environment variables
(like inbuilt variables) Now to add we own variable with value > \$ export name: "Varshini" of a wife there -> & printenv => You should see name = "Varshini" Now if you just use un variable in command on probable in command on probable in command on the state of the output: Varshini Vehl & Molestage et & spe od peanut txt "liman & dillet" onso & output: Hellog Varshiniot primeriber will at Il To delete the variable: o delle in sprintenv = You should not see name variable now. To between vser roles: 2291/2man/ sl-21 ps switch word hard ward ward - Root is superior were someone opened in separate window

Rigular Expression (Riger) This is mainly used when u r trying to search for particular pattern of characters from system generated jogs like ip address, weel etc... Also on websites, you can see email related fields where it might ask u to enter valid email 1D. If u give invalid ID, the system sucognizes and throws u error. Here system is performing a pattern checking Ref: regex101.com x [] -> set of character eq: [a, b, c], [0-9] La -> Checke whether the doc starts with specific word beginning of doc. /Z -> End of doc. Between words, eg: sland /Ban/B => Between \$b -> Whole words eq: 16 and 16 => and not sand, hand 190d >> Digitx=> [0-9]

10 -> Any character other than digitx [0-9] 18 > Space character two IS -> other than whitespace + [p. 05 1W- [a-2] [A-Z] [0-9], - (underscose) W - Not [a-2] [A-2][0-9], -· Any character except newline (Enter) -> Start of every line eq: 1 The -> Identifies the line Starts with 'The' \$ -> End of everyline eg: & apples - 2 dentifies the line ends with apple

* - Tero or more occurances leg: abet u mila hour planer at Laborabece de la la laborabece L'ac, abbc, abc, abbbc, abbb---c pudud multing abet, abec, abece., abecabbabel ? - Zero or one occurances x mos colxopor : jus egiabe?

ab, abe, abe ab abbinous po see []

ab, abe, abe ab abbinous po see []

ab [1342] specifying no of occurances winged - al eg: abci 29

Mest times es abc, abc, abcc, abcc now newted - of Write a ruger pattern to find valid mait Dann - de l' eq: varsh123 v@ yahoo.com

[azA-zo-9+[@][a-zA-z]+[.gazA-z]+ on or Los [salend way of way of more occurances way have start of prove oceurances 03[5-A] [5-03 30N - W/ Varsh123 y @ gahoo. com.
[a-2A-70-9]+[@][a-2A-2][][a-2A-2]+@\$. 3 -> End of evaryline egg of opply of duringer the line

grup command: X -> \$ grup "pattern" filename In employee text eg: \$ nep "apple" abc.txt. olas Managa > \$ grep -i "apple" abc-txt quieter thou in It 3 grep - L"apple" / home/ubuntou ! -> & grap - l "apple" sample txt file 2-txt file 3-txt displays the filename if the word is present. -> \$ grep -W "apple" abc-txt

Lo Searches whole word > & grep -iw "apple" abc. txt. -> \$ grep -n "apple" abc.txt. shrommos liste bound Regex in grep! -> \$ grep "[A-Z]*" abc-txtxd dip & 11- list & -Ly Displays all the word that has upper case eg: CSE, Apple, He, Eva, Brech.... sed command => Find & Replace >\$ sed 's/is/Is/g' abc-txt tilename.

sed command => Find a Replace

Tilename.

> \$ sed 's/is/Is/g' abc-txt

> global occurrances (An places)

substitute | > Replace

word

word

30-45 th line

awh command; it eg: employee-txt wounded "wolled" dail for ajay Manager 45000 varun accountant 35000 116 119 particular data, we can use awk If we want retrieve -> \$ awk [print] employe tot => Prints the data >) awk [print\$1] employee.txt => Prints 1st column => & awk | [print \$1 \$3]' employee. Ext => Prints 1st 2 3rd col -> Sawk '/accountant [print \$1 \$3]' employee.txt

Ly Prints 1st & 3rd column that has only. accountant like filtering out accountants. head & fail commands: It states sugger in guy to

-> \$tail file name , default La Displays last lo line from the file.

-> & tail -n 3 file. txt x dodn " *[s-A]" garpt c La Displays last 3 line.

> 4 head filename Default.

Li Displays first 10 lines from file

-> 4 head -n 5 file-txt 10121/2/2 602 8 4

toil -f => give live updates of line.

The want to view 30-45 line.

-> & head -n 45 file-txt | tail -n 15 file-txt. 4 Displays 30-45th line

head 45 tail 15

vim - text editor for linux \$ vi file.txt to Opens the file in vim text editor. press 'i' to edit data Press 'Esc' to come out of edit-mode & goes to command mode. => Save & quit editor mode. a particular line, press D twice, the line will be , y.d => deleter all fine. : q! -> force quit goes to linux terminal. sort command →\$ sort filename sorts the content in ascending order -> & sort -r filename sorts the content in descending order >\$ 18 -1 | sort Lo sorts the list of file in ascending order (by size-default) unique command: Always compare adjacent lines. -> \$ uniq file.txt. Displays unique words from the content. -> \$ uniq -c file-txt Displays unique words & no- of their occurances -> suniq -d filetet 5 Displays duplicate values Word wunt (wc) command & we file txt > No. of lines words 14 14 71 bytes