## endin ((directory)) enoue empty directory:

NOTE: - dot de note current
directory/location whereas
'dash de note last directory

file extension file type

total

more

info

pictures

videos.

extension: - tile name by path name

-> Pattern maching!-

In this what we do is that, we search for file with some pattern name.

We use i different pattern with 'Is' common to search for files

with same palton of name. mathes Pattern steplace single character. [abc...] A file name starting with any one character in the enclosed class. [labe...] Pile name starting with not any one character in the enclosed class. [[:alpha:]] File name starting with alphabetic character. I: lower: Il File name stating with atphabet lowercase chander [: Upper:]] File name steuting with uppercase character C'alnumi]] File name starting with any alphabetic character

[[:punct:]] tile name shaking with any Printable character not a space or alphanimeric. Assume we are in a disectory with many files in it . If we want to seasch a file state with a we use command 9+ will list all file with name a " Irridially . If we want to search a file name starts with & but have specific (say 4) mo of character in it, ls , 9??? 94 will list all files, name stuts

(P==0)

edith a and have the 3 more character

state with a or c' we use command

## Js [ac] \*

-> Brace expansion:

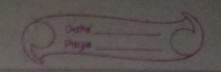
Baace expansion is used when we want to a secoul or create. files/disedy with similar type of name, only disferentiable by prefix like 1-9, a-20 exc.).

ex . -

mysic 1. mpy mysicz. mpy

we can create as many number of file at move others by typing there name, but brace expansion makes it easier. You can call all some tops all smiles make files in one call

Capating den files from songt. may to Songlo. mpy by brace expansion. . touch song &1. 103 mpy Creating files with 2 braces expansions · touch song &1...33 & az · mpy It will create file songtaining songrammen songram · touch song & 1,23 & 9, 63, mpy Song 1a. mpy songlb. mpy songlampy Song 2b. mpy · touch text & 189.03, 2,33. txt it will exeate file tax 10.4x + 4x + 7p - 4x + 6x + 7 c - 1x + texts. +x+ +ex+3. +x+



we can also use this brace expansion methode with commons like co. mixdia, my, om exc. Instead of multiple. Similar type lile name.

ex-

mx dia ../ Real & 1... 33

34 will create 3 directories

Reals/ Reals/ Reals/

-> Variable expansion:- 11

variable is named contrince that can store or value in memory. It stored data whenever we work

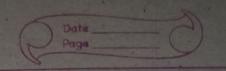
Synthy! -

VARIABLENAME = value

To access the data ingle ovariable on once use echo commandis

ECHO \$VARTABLENAME 945 result will be value.

here, & Bused to denote that after that next world is variablesque which value we wand. To avoid mistekes for bigger variable name or over shell expansion we use 53 abound variable. Decho GEVARTABLENAMES example of vallable expansion. USERNAME = Amoj / Side of the Echo Name of the User is \$ SUSERNAM Resulti-2/5/10 5/ will 250 Name of the User is Angi -> Command Bubstitution: secommand Substitution allas the output of a command to replace the command Itself on the command ELICATION BURE ON The secret him the velue



Command substitution occurs when a lommand is enclosed in parentheses, and preceded by a dollar sign (f). I can nest multiple command expansion enside cach other.

ex. - echo The Hme 15 \$(dale +1/M)
minutes past \$(dala +1/Ly.P)

output la alamana propina les

The time is 26 minutes pass 11AM.

-> protecting argument from expansion!

of we want to print SHOME without expansion in command line, we use escape character backs ASh (1) before thank

It will protect the character immediately following it from expansion.

ex-

echo my name is suser

