pwd : displays the present working directory.

ls :- list directory contents.

ls -l :- list detailed information of current directory contents.

cat : concatenates and displays files, cat filename

clear : clears the screen.

man command : to view documentation.

exit: exit the shell or your current session.

echo: The **echo** command is commonly used for displaying information, creating simple scripts, or providing feedback to users in command-line interfaces.

Environment variables:------

Storage location that has a name and a variable

Typically uppercase

Access the contents by executing :- echo $VAR\_NAME

**PATH:-**

An environment variable

Controls the command search path.

Contains a list of directories.

**WHICH**

The **which** command is used to locate the executable file associated with a given command or program.

Keep in mind that the **which** command only searches for executables that are in directories listed in your system's PATH environment variable. If you want to locate a command that's not in your PATH, you might need to use **which** with absolute or relative paths.

**Directories**

**.** this directory

**.. the parent directory**

**Cd - change to the previous directory.**

**/ directory separator**

**mkdir create directory**

**rmdir remove deriectory**

**rm -rf director -recursively removes directory**

**in linux we can not undo delectd files**

**how to execute outside of $PATH**

**/full/path/to/command**

**./command-in-this-dir**

**Decoding ls -l output**

$ls -l

-rw-rw-r— 1 jason users 10400 sep 27 08:52 sales.data

Permissions -rw-rw-r—

Number of links 1

Owner name Jason

Group name users

Number of bytes in the file 10400

Last modification time sep 27 08:52

File name sales.data

Listing all files including hidden files

ls -l -a

ls -la

ls -al

**permissions:-** -rw-rw-r--

* Regular file

d directory

l symbolic link

permissions on file on directoryh

r read allows file to read allows file names in directory to read

w write allows file to modified allows entries to be modified within the directory

x execute allows the execution of aloows access to contents and metadata for

a file entries.

**Permission categories**

**U user**

**G group**

**O other**

**A all**

**Decoding**

**-rw-r--r-- - type -rw user r—group r-- other**

**6 4 4**

**Change permissions**

**Item meaning**

**Chmod change mode command**

**Ugoa user category user, group,other,all**

**+-= add, subtract, or set permissions**

**Rwx read, write, execute**

**Permissions on different base numbers**

**Octal bimanry string description**

**0 0 --- no perms**

**1 1 --x execute only**

**2 10 -w- write only**

**3 11 -wx write and execute**

**4 100 r-- read only**

**5 101 r-x read and execute**

**6 110 rw- read and write**

**7 111 rwx read write and execute**