**linux lab-23012020**

what is OS?

open-source and non open-source?

what is kernel?

types of OS?

**Linux v/s Unix:**

linux is open source - unix is not

linux is gui - unix is not(CLI)

linux is portable - unix is not

linux versions(ubuntu,kali) - unix AIS,HP-UX

\*(crendentials - pwd(123456) username(cs1))

**Commands:**

**pwd** - (present working dir)

**cd** - (change dir)

**ls** - (List of files)

**wc** -(word count, to count words and lines, flag- l,w)

**grep** - (for matching and finding a particular word or string, flags- i(case insensitive),n(line no.),v(exclude and highlight all other, inverted))

**cat** - (concatination, to create file(and prompt for entry),>(for overwriting),>>(to append))

**mkdir** - (make dir , to create dir)

**df** - (shows disk space)

**touch** - (to create a file (empty))

**rmdir** - (remove dir, to delete dir)

**linux lab-30012020**

**what to do:**

* About vi editor.
* codes.
* program.

**Notes**

* We are going to use vi editor to do shell scripting.
* like :

**[** **$~ vi name.sh ]**

* types of shells used are **c-shell** and **bash**(for timing being).
* when we open a file using ***vi*** ~ denotes blank line.

**Codes for shell scripting:**

* **i** - inserts text at cursor.
* **a** - append after cursor.
* **esc(key)** - exits from the current mode.
* **U** - undo last changes.
* **x** - deletes char at cursor.
* **o** - for adding new line.
* **D** - to delete something.
* **to exit**
* **:w** - to save/write.
* **:q** - to quit.
* **:wq** - to do both.

**scripting:**

* #!/bin/bash
* echo "Hello World!"
* read var\_name
* echo "Hello: $var\_name"
* -------------------------
* **[ $~ bash name.sh ] (to run the shell)**