**LINUX INTRODUCTION**

Linux is an **open-source operating system (OS)** based on **Unix**.

Linux is **free**

Linux exist such as **Ubuntu, Fedora, Debian, CentOS, and Red Hat**.

**Linux is widely used because it is:**

 **Free & Open-Source** – No licensing cost; anyone can use, modify, and share.

 **Secure** – Less prone to viruses and malware compared to Windows.

 **Stable & Reliable** – Runs for months or years without crashing (great for servers).

 **Flexible & Customizable** – Can be modified to suit desktops, servers, IoT devices, etc.

 **Powerful for Developers** – Provides tools for programming, networking, and DevOps.

 **Community Support** – Huge global community provides updates and help.

**Linux Commands:**

**pwd** : Shows current working directory.

Cd : change directory

Cd .. : one step back

Cd ../.. : two steps back

Ls : List of files & directories

Ls –ltr : list of all files

rm –rf → Remove file or directory

ls -a : list of hidden files

rm -rf : deleting directory

mkdir filename : creating directory

touch filename : creating file

mv filename destination : move and rename (or) cut and paste

cp filename destination : copy the files / directories

ll : long list of files

vi [file] : Open text file in Vi editor

nano file : Open text file in Nano editor

ls –ls : list of file and directory in sorting format

ls -d \*/ list of all directory

wc file name : word count