## EXPERIMENT -1

**AIM :-** Introduction to Linux OS (ubuntu)

**THEORY**

What is Linux?

→ Linux is a kernel created by Linus Torvalds, as an open source project

→ Linux is often used for OS that uses the Unix like Operating system kernel.

**COMMANDS FOR LINUX TERMINAL**

**pwd :-** It gives you the path of the present working directory.

**alias :-** the alias command is a way to run commands using a shorter name.

**apt get** The apt get tool automatically updates a debian machine

**Cat** A command that can read, modify, concatinate files.

**cd** The cd command changes the current directory.

**sort** used to sort lines alphabetically or numerically.

**sudo** lets a system admin give certain users the ability to run some command at the root level.

**touch** Admin can create blank files with their command.

**df** Displays the amount of disk space available in the file system containing each file name alignment.

**echo** use echo to repeat a String variable.

**env** runs a program in modified environment.

**exit** Exit command terminates a script.

**find** The find commands searches the directory tree to locate files in meet certain condition.

**for, while** Execute loop items repeatedly.

**free** Shows the free and used physical memory.

**grep** searches files for a given character string

**history** shows all the commands used since the start of current session.

chmod  The command changes the permission of a file.

cmp  The cmp utility compares two files and writes result to the standard output.

cp  The cp command copies files and directories.

kill  used to safely shutdown processes or apps.

locate  It reads one or more datasets and writes file name to match certain output pattern.

ln  Creates new name for a file using hard linking which allows multiple users to store one file.

ls  lists the files and folders in pwd.

lsof  admin uses lsof list all the open files.

mount  mounts file systems on screen.

mkdir  generates a new directory.

passwd  used to update a user's current password.

shutdown  used to update a user turn off computer.

Shell → Shell is a program that Commands from the keyboard and gives them to the Operating system to perform. In old days, it was only user interface available on the unix like system such of Linux