# OS Practical-1

**Aim: Demonstration of Basic Linux commands**

**What is Linux operating system?**

- Linux operating system (or Linux OS) is an open source, freely available OS that can be installed on a wide range of devices such as desktops, servers, smartphones and tablets etc.
- Linux is used to manage several services, including process scheduling, application scheduling, basic peripheral devices and file systems.

**How to open online Linux complier:**

**Step 1: To open jslinux.**

## JSLinux

Run Linux or other Operating Systems in your browser!

The following emulated systems are available:

| CPU | OS | User Interface | VFsync access | Startup Link | TEMU Config | Comment |
|-----|-----|-----|-----|-----|-----|-----|
| x86 | Alpine Linux 3.12.0 | Console | Yes | click here | url | |
| x86 | Alpine Linux 3.12.0 | X Window | Yes | click here | url | Right mouse button for the menu. |
| x86 | Windows 2000 | Graphical | No | click here | url | Disclaimer. |
| x86 | FreeDOS | VGA Text | No | click here | url | |
| riscv64 | Buildroot (Linux) | Console | Yes | click here | url | |
| riscv64 | Buildroot (Linux) | X Window | Yes | click here | url | Right mouse button for the menu. |
| riscv64 | Fedora 33 (Linux) | Console | Yes | click here | url | Warning: longer boot time. |
| riscv64 | Fedora 33 (Linux) | X Window | Yes | click here | url | Warning: longer boot time. Right mouse button for the menu. |

# Step 2 : To open Fedora 33 (Linux) Console.

```
Loading...

Welcome to Fedora 33 (riscv64)

[root@localhost ~]#
```

# Basic Linux commands:

## 1.ls command: List all files and folders in the current directory

```
Loading...

Welcome to Fedora 33 (riscv64)

[root@localhost ~]# ls
bench.py  hello.c
[root@localhost ~]#
```

## 2. ls -l command: Display complete details of file.

```
[root@localhost ~]# ls -l
total 8
-rw-r--r-- 1 root root 114 Dec 26  2020 bench.py
-rw-r--r-- 1 root root 185 Sep  9  2018 hello.c
[root@localhost ~]#
```

### 3.ls -a command: The -a argument is used to list down any hidden folders or files.

```
[root@localhost ~]# ls -a
.      .bash_logout   .bashrc    .cshrc      hello.c
..     .bash_profile  bench.py   .fldev_cfg  .tcshrc
[root@localhost ~]#
```

### 4.pwd command: Print Working Directory. pwd prints the full pathname of the current working directory.

```
[root@localhost ~]# pwd
/root
```

### 5.clear command: Used to clear the screen

```
[root@localhost ~]#
```

### 6.date command: display current date and time.

```
[root@localhost ~]# date
Mon Sep 11 03:18:28 PM UTC 2023
[root@localhost ~]#
```

### 7.cal command: display current month calendar.

```
[root@localhost ~]# cal
    September 2023
Su Mo Tu We Th Fr Sa
                1  2
 3  4  5  6  7  8  9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
```

### 8.touch command: create a new file

```
[root@localhost ~]# touch t1.txt
[root@localhost ~]# ls
bench.py  hello.c  t1.txt
[root@localhost ~]#
```

### 9. echo command: Display text on the screen.

```
[root@localhost ~]# echo "Hello world"
Hello world
```

### 10. cat command: Append text to the particular file and display the file content using cat command.

```
[root@localhost ~]# echo "Hello world" > t1.txt
[root@localhost ~]# cat t1.txt
Hello world
```

### Add and display multiple lines in file:

```
[root@localhost ~]# echo "hello world" > t1.txt
[root@localhost ~]# cat t1.txt
hello world
[root@localhost ~]# echo "this is my frist OSS program" >> t1.txt
[root@localhost ~]# cat t1.txt
hello world
this is my frist OSS program
```

## 11. mkdir command: Make Directory

```
[root@localhost ~]# mkdir oss
[root@localhost ~]# ls
bench.py  hello.c  oss  t1.txt
```

## 12. rmdir command: Remove Directory

```
[root@localhost ~]# rmdir oss
[root@localhost ~]# ls
bench.py  hello.c  t1.txt
```

## 13. mv command: rename the directory

```
[root@localhost ~]# mv t1.txt t2.txt
[root@localhost ~]# ls
bench.py  hello.c  t2.txt
```

## Note:t1.txt(old file name),t2.txt(new file name)