**ASSIGNEMENT LINUX INTRO**

1. What is operating system ?

Operating System is defined as a collection of programs that coordinates the operations of computer hardware and software. It acts as a bridge for the interface between man and machine

1. Types of Operating system ?

* Windows
* Linux
* Ios
* Ubuntu
* Blackberry
* Kali
* IBM

1. Explain about Linux (History )?

Linux is a Unix-like, open source and community-developed operating system (OS) for computers, servers, mainframes, mobile devices and embedded devices. It is supported on almost every major computer platform, including x86, ARM and SPARC, making it one of the most widely supported operating systems.

In 1991, Linus Torvalds a student at the university of Helsinki, Finland, thought to have a freely available academic version of Unix started writing its own code. Later this project became the Linux kernel. He wrote this program specially for his own PC as he wanted to use Unix 386 Intel computer but couldn't afford it. He did it on MINIX using GNU C compiler. GNU C compiler is still the main choice to compile Linux code but other compilers are also used like Intel C compiler.

He started it just for fun but ended up with such a large project. Firstly he wanted to name it as 'Freax' but later it became 'Linux'.

He published the Linux kernel under his own license and was restricted to use as commercially. Linux uses most of its tools from GNU software and are under GNU copyright. In 1992, he released the kernel under GNU General Public License.

1. Difference between Linux and windows ?

|  |  |
| --- | --- |
| Linux | Windows |
| Linux is a open source operating system. | While windows are the not the open source operating system |
| Linux is free of cost. | While it is costly. |
| Linux is more efficient in comparison of windows. | While windows are less efficient. |
| Linux provides more security than windows | While it provides less security than linux |
| Free software | Cost software |
| Low hardware cost | High hardware cost |
| Customizable add features | Not customizable |

1. Make a list of commends

* Touch <file name> :- to Create file
* LS :- to display the file
* PWD :- Present working directory
* Cd cd.. :- change the directory
* Mkdir <dir name> :- To create the directory
* Whoami :- it will display the username
* Vi/nano<file name> :- to modify /edit the files
* Cat <file name> :- To display the content of the file
* Cat > file name :- don’t want the old data and add the new data
* Cat >>file name :-Add new data along with the old data
* Cp from destination :- Copy the files/data
* Cp-r \*) :- Copying the directory recursively from one to other
* Mv from destination :- it is udes to move the data from one file to other
* Mv<oldfile><newfile> :- to rename the file
* Rmdire <dirname> :- to delete the directory
* Rm -rf :- remove recursively forcefully
* Rm \* :- to delete the all files