Topic 1 :Basic software concepts

- ### ***Module 4:*** *Operating systems and environments*

Different types of operating systems.

In module 3 your learned what a operating systems is and what it does so in this module we will learning more about different types of an operating systems and how they work

- Firstly we going to look at different types of an operating system

- **Standalone OS**: is an OS that works on devices such as your PC,Laptop, Note book, it's an OS that you can download if it's not already on your device/system

- **Network OS:** it is an OS that is used for on servers to create a computer network

- **Embedded OS:** It is an OS that's is already installed on your devices such as your cellphones or tablets

Different operating systems

- Now we going to look at different operating systems

  Unix: First OS to be developed, it is widely used to run servers and majority of of computer the that makes up the WWW
  Linux: is an open-source OS runs on number of hardware platforms

Different operating systems

- **_Macintosh:_** OS developed to run on apple computers, it's a graphical user's interface based OS,it uses mouse to point clicks on icons displayed on the screen for users to communicate with the computer

- **_Microsoft windows:_** MS windows has variety of OS from servers and embedded devices to PC, its first OS was developed in 1985, MS windows dominate the computer market, because mos PC you get come installed with MS windows

The environment in which systems operate

In this unit we will be looking at how different OS operate and where they operate.

Firstly we will be looking at how they operate, they use to different method to operate one being CLI and the other one GUI

Command line interface(CLI): is a way of interacting with a computer programs using instruction instead of icons and mouse clicks, Unix and MS-DOS are older OS that used CLI instead of GUI

Graphical user interface(GUI): is a way if interacting with a computer by use of mouse clicks, icons and menus, modern OS such as Mac OS and and Windows 7/8/10 uses GUI.

The environment in which systems operate

Secondly we will be looking at where they operate.

Windows OS: MS OS is not tied to on one manufacturer, it licensed its OS to different hardware manufacturer, such as Dell,Lenovo, Acer etc.. That is why most PC and laptops nowadays comes with Windows OS pre-installed on it

*Apple OS:*Opereates only on apple phones and Mac Computrers which are manufactured by Apple

The history of OS in terms of Proprietary software and open source software

- Proprietary software:is owned and managed by a private company. Apple and windows O is a Proprietary software because its source code is not available for modification or redistribution.

- Open-source: is a system whose source code is made available to users. BSD(Barkley software Distribution) is a source code developed by Universtu of California, several open-source OS are based on this software it's an extension of Unix OS

- NetBSD,OpenBSD, FreeBSD are OS developed from BSD source code.

- LINUX OS is also an open source software

End of module 4